EXHIBIT 14

Michael Crowley, Ph.D.

Page 1

IN THE UNITED STATES DISTRICT COURT FOR THE EASTERN DISTRICT OF NEW JERSEY

- - -

IN RE: JOHNSON & :
JOHNSON TALCUM POWDER :
PRODUCTS MARKETING, :

SALES PRACTICES, AND : NO. 16-2738 PRODUCTS LIABILITY : (FLW) (LHG)

LITIGATION

:

THIS DOCUMENT RELATES : TO ALL CASES :

January 4, 2019

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Videotaped deposition of Michael Crowley, Ph.D., produced as a witness at the instance of the Defendant, Johnson & Johnson entities, and duly sworn, was taken in the above-styled and numbered cause on the 4th day of January, 2019, from 9:07 a.m. to 5:59 p.m., before Steven Stogel, CSR in and for the State of Texas and Certified LiveNote Reporter, reported by machine shorthand the Hilton Austin Hotel, 500 East 4th Street, Austin, Texas, pursuant to the Federal Rules of Civil Procedure and the provisions stated on the record or attached hereto.

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	Page 2	Page 4
1	APPEARANCES:	1
2	DEACLEV ALLEN LAW FIDM	2 INDEX
3	BEASLEY ALLEN LAW FIRM BY: P. LEIGH O'DELL, ESQ.	3
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1.0	Steering Committee	12 EXHIBITS
12 13	THEVED ELLIS LID	13
	TUCKER ELLIS, LLP BY: MICHAEL C. ZELLERS, ESQ.	14 NO. DESCRIPTION PAGE
14	515 South Flower Street	15 1. Notice of Deposition 11
	Forty Second Floor	16 2. Invoices from Theridian 13
15	Los Angeles, California 90071-2223	Technologies
	(213) 430-3301	17
16	michael.zellers@tuckerellis.com	3. Cross-Reference of CAS 18
17	- and -	18 Numbers
18	SKADDEN, ARPS, SLATE, MEAGHER & FLOM LLP	19 4. FDA Guidance Document 21
19	BY: GEOFFREY M. WYATT, ESQ. 1440 New York Avenue N.W.	20 5. Book Entitled "Excipient 22
	Washington, DC 20005	Toxicity and Safety"
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	Johnson entities	Data
22		23 7 P + CP C 1 25
23 24		7. Report of Dr. Crowley 25
	Page 3	Page 5
1	APPEARANCES: (Cont'd)	1
2	CORROLLA REEG LLR	2 EXHIBITS (Cont'd)
3	GORDON & REES, LLP BY: KENNETH J. FERGUSON, ESQ.	3 4 NO. DESCRIPTION PAGE
3		
4	816 Congress Avenue Suite 1510	
	816 Congress Avenue, Suite 1510 Austin, Texas 78701	5 8. Curriculum Vitae of 26
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	Austin, Texas 78701 (512) 391-0197 kferguson@gordonrees.com - and - COUGHLIN DUFFY, LLP	5 8. Curriculum Vitae of 26 Dr. Crowley 6 9. Reference Section from 26
6 7	Austin, Texas 78701 (512) 391-0197 kferguson@gordonrees.com - and - COUGHLIN DUFFY, LLP BY: JONATHAN F. DONATH, ESQ.	5 8. Curriculum Vitae of 26 Dr. Crowley 6 9. Reference Section from 26 7 Dr. Crowley's Report 8 10. Sources Considered Section 29 from Dr. Crowley's Report
6	Austin, Texas 78701 (512) 391-0197 kferguson@gordonrees.com - and - COUGHLIN DUFFY, LLP BY: JONATHAN F. DONATH, ESQ. 350 Mount Kemble Avenue	5 8. Curriculum Vitae of 26 Dr. Crowley 6 9. Reference Section from 26 7 Dr. Crowley's Report 8 10. Sources Considered Section 29 from Dr. Crowley's Report
6 7	Austin, Texas 78701 (512) 391-0197 kferguson@gordonrees.com - and - COUGHLIN DUFFY, LLP BY: JONATHAN F. DONATH, ESQ.	5 8. Curriculum Vitae of 26 Dr. Crowley 6 9. Reference Section from 26 7 Dr. Crowley's Report 8 10. Sources Considered Section 29 from Dr. Crowley's Report 9 11. EPA Article Entitled "Basic 85
6 7 8 9	Austin, Texas 78701 (512) 391-0197 kferguson@gordonrees.com - and - COUGHLIN DUFFY, LLP BY: JONATHAN F. DONATH, ESQ. 350 Mount Kemble Avenue Morristown, New Jersey 07962 (973) 267-0058 jdonath@coughlinduffy.com	5 8. Curriculum Vitae of 26 Dr. Crowley 6 9. Reference Section from 26 Dr. Crowley's Report 8 10. Sources Considered Section 29 from Dr. Crowley's Report 9 11. EPA Article Entitled "Basic 85 Information about Scientific
6 7 8 9	Austin, Texas 78701 (512) 391-0197 kferguson@gordonrees.com - and - COUGHLIN DUFFY, LLP BY: JONATHAN F. DONATH, ESQ. 350 Mount Kemble Avenue Morristown, New Jersey 07962 (973) 267-0058 jdonath@coughlinduffy.com Representing the Defendant, Imerys	5 8. Curriculum Vitae of 26 Dr. Crowley 6 9. Reference Section from 26 7 Dr. Crowley's Report 8 10. Sources Considered Section 29 from Dr. Crowley's Report 9 11. EPA Article Entitled "Basic 85 Information about Scientific Integrity
6 7 8 9 LO	Austin, Texas 78701 (512) 391-0197 kferguson@gordonrees.com - and - COUGHLIN DUFFY, LLP BY: JONATHAN F. DONATH, ESQ. 350 Mount Kemble Avenue Morristown, New Jersey 07962 (973) 267-0058 jdonath@coughlinduffy.com	5 8. Curriculum Vitae of 26 Dr. Crowley 6 9. Reference Section from 26 Dr. Crowley's Report 8 10. Sources Considered Section 29 from Dr. Crowley's Report 9 11. EPA Article Entitled "Basic 85 Information about Scientific Integrity
6 7 8 9 LO	Austin, Texas 78701 (512) 391-0197 kferguson@gordonrees.com - and - COUGHLIN DUFFY, LLP BY: JONATHAN F. DONATH, ESQ. 350 Mount Kemble Avenue Morristown, New Jersey 07962 (973) 267-0058 jdonath@coughlinduffy.com Representing the Defendant, Imerys Talc America, Inc.	5 8. Curriculum Vitae of 26 Dr. Crowley 6 9. Reference Section from 26 7 Dr. Crowley's Report 8 10. Sources Considered Section 29 from Dr. Crowley's Report 9 11. EPA Article Entitled "Basic 85 10 Information about Scientific Integrity 11 12. Office of Research Integrity 89
6 7 8 9 10	Austin, Texas 78701 (512) 391-0197 kferguson@gordonrees.com - and - COUGHLIN DUFFY, LLP BY: JONATHAN F. DONATH, ESQ. 350 Mount Kemble Avenue Morristown, New Jersey 07962 (973) 267-0058 jdonath@coughlinduffy.com Representing the Defendant, Imerys Talc America, Inc. TUCKER ELLIS, LLP	5 8. Curriculum Vitae of 26 Dr. Crowley 6 9. Reference Section from 26 Dr. Crowley's Report 8 10. Sources Considered Section 29 from Dr. Crowley's Report 9 11. EPA Article Entitled "Basic 85 Information about Scientific Integrity 11 12. Office of Research Integrity 89 Article Entitled "Definition
6 7 8 9 10	Austin, Texas 78701 (512) 391-0197 kferguson@gordonrees.com - and - COUGHLIN DUFFY, LLP BY: JONATHAN F. DONATH, ESQ. 350 Mount Kemble Avenue Morristown, New Jersey 07962 (973) 267-0058 jdonath@coughlinduffy.com Representing the Defendant, Imerys Talc America, Inc. TUCKER ELLIS, LLP BY: SANDRA J. WUNDERLICH, ESQ.	5 8. Curriculum Vitae of 26 Dr. Crowley 6 9. Reference Section from 26 7 Dr. Crowley's Report 8 10. Sources Considered Section 29 from Dr. Crowley's Report 9 11. EPA Article Entitled "Basic 85 Information about Scientific Integrity 11 12. Office of Research Integrity 89 Article Entitled "Definition of Research Misconduct"
6 7 8 9 10	Austin, Texas 78701 (512) 391-0197 kferguson@gordonrees.com - and - COUGHLIN DUFFY, LLP BY: JONATHAN F. DONATH, ESQ. 350 Mount Kemble Avenue Morristown, New Jersey 07962 (973) 267-0058 jdonath@coughlinduffy.com Representing the Defendant, Imerys Talc America, Inc. TUCKER ELLIS, LLP	5 8. Curriculum Vitae of 26 Dr. Crowley 6 9. Reference Section from 26 Dr. Crowley's Report 8 10. Sources Considered Section 29 from Dr. Crowley's Report 9 11. EPA Article Entitled "Basic 85 Information about Scientific Integrity 11 12. Office of Research Integrity 89 Article Entitled "Definition of Research Misconduct"
6 7 8 9 10 11 12	Austin, Texas 78701 (512) 391-0197 kferguson@gordonrees.com - and - COUGHLIN DUFFY, LLP BY: JONATHAN F. DONATH, ESQ. 350 Mount Kemble Avenue Morristown, New Jersey 07962 (973) 267-0058 jdonath@coughlinduffy.com Representing the Defendant, Imerys Talc America, Inc. TUCKER ELLIS, LLP BY: SANDRA J. WUNDERLICH, ESQ. 100 South Fourth Street, Suite 600	5 8. Curriculum Vitae of 26 Dr. Crowley 6 9. Reference Section from 26 Dr. Crowley's Report 8 10. Sources Considered Section 29 from Dr. Crowley's Report 9 11. EPA Article Entitled "Basic 85 Information about Scientific Integrity 11 12. Office of Research Integrity 89 Article Entitled "Definition of Research Misconduct"
6 7 8 9 10 11 12 13	Austin, Texas 78701 (512) 391-0197 kferguson@gordonrees.com - and - COUGHLIN DUFFY, LLP BY: JONATHAN F. DONATH, ESQ. 350 Mount Kemble Avenue Morristown, New Jersey 07962 (973) 267-0058 jdonath@coughlinduffy.com Representing the Defendant, Imerys Talc America, Inc. TUCKER ELLIS, LLP BY: SANDRA J. WUNDERLICH, ESQ. 100 South Fourth Street, Suite 600 Saint Louis, Missouri 63102 (314) 256-2550 sandra.wunderlich@tuckerellis.com	5 8. Curriculum Vitae of 26 Dr. Crowley 6 9. Reference Section from 26 7 Dr. Crowley's Report 8 10. Sources Considered Section 29 from Dr. Crowley's Report 9 11. EPA Article Entitled "Basic 85 Information about Scientific Integrity 11 12. Office of Research Integrity 89 Article Entitled "Definition of Research Misconduct" 13 13. Anne C. Steinemann Article 96
6 7 8 9 10 11 12 13	Austin, Texas 78701 (512) 391-0197 kferguson@gordonrees.com - and - COUGHLIN DUFFY, LLP BY: JONATHAN F. DONATH, ESQ. 350 Mount Kemble Avenue Morristown, New Jersey 07962 (973) 267-0058 jdonath@coughlinduffy.com Representing the Defendant, Imerys Talc America, Inc. TUCKER ELLIS, LLP BY: SANDRA J. WUNDERLICH, ESQ. 100 South Fourth Street, Suite 600 Saint Louis, Missouri 63102 (314) 256-2550 sandra.wunderlich@tuckerellis.com Representing the Defendant, PTI	5 8. Curriculum Vitae of 26 Dr. Crowley 6 9. Reference Section from 26 7 Dr. Crowley's Report 8 10. Sources Considered Section 29 from Dr. Crowley's Report 9 11. EPA Article Entitled "Basic 85 Information about Scientific Integrity 11 12. Office of Research Integrity 89 Article Entitled "Definition of Research Misconduct" 13 13. Anne C. Steinemann Article 96 Entitled "Fragranced Consumer Products and Undisclosed Ingredients"
6 7 8 9 10 11 12 13	Austin, Texas 78701 (512) 391-0197 kferguson@gordonrees.com - and - COUGHLIN DUFFY, LLP BY: JONATHAN F. DONATH, ESQ. 350 Mount Kemble Avenue Morristown, New Jersey 07962 (973) 267-0058 jdonath@coughlinduffy.com Representing the Defendant, Imerys Talc America, Inc. TUCKER ELLIS, LLP BY: SANDRA J. WUNDERLICH, ESQ. 100 South Fourth Street, Suite 600 Saint Louis, Missouri 63102 (314) 256-2550 sandra.wunderlich@tuckerellis.com	5 8. Curriculum Vitae of 26 Dr. Crowley 6 9. Reference Section from 26 7 Dr. Crowley's Report 8 10. Sources Considered Section 29 from Dr. Crowley's Report 9 11. EPA Article Entitled "Basic 85 Information about Scientific Integrity 11 12. Office of Research Integrity 89 Article Entitled "Definition of Research Misconduct" 13 13. Anne C. Steinemann Article 96 Entitled "Fragranced Consumer Products and Undisclosed Ingredients" 14. Wikipedia Entry for "Mucous 100
6 7 8 9 10 11 12 13 14	Austin, Texas 78701 (512) 391-0197 kferguson@gordonrees.com - and - COUGHLIN DUFFY, LLP BY: JONATHAN F. DONATH, ESQ. 350 Mount Kemble Avenue Morristown, New Jersey 07962 (973) 267-0058 jdonath@coughlinduffy.com Representing the Defendant, Imerys Talc America, Inc. TUCKER ELLIS, LLP BY: SANDRA J. WUNDERLICH, ESQ. 100 South Fourth Street, Suite 600 Saint Louis, Missouri 63102 (314) 256-2550 sandra.wunderlich@tuckerellis.com Representing the Defendant, PTI Royston LLC and PTI Union LLC	5 8. Curriculum Vitae of 26 Dr. Crowley 6 9. Reference Section from 26 Dr. Crowley's Report 8 10. Sources Considered Section 29 from Dr. Crowley's Report 11. EPA Article Entitled "Basic 85 Information about Scientific Integrity 12. Office of Research Integrity 89 Article Entitled "Definition of Research Misconduct" 13 13. Anne C. Steinemann Article 96 Entitled "Fragranced Consumer Products and Undisclosed Ingredients" 15 Ingredients" 16 14. Wikipedia Entry for "Mucous 100 Membrane"
6 7 8 9 10 11 12 13 14	Austin, Texas 78701 (512) 391-0197 kferguson@gordonrees.com - and - COUGHLIN DUFFY, LLP BY: JONATHAN F. DONATH, ESQ. 350 Mount Kemble Avenue Morristown, New Jersey 07962 (973) 267-0058 jdonath@coughlinduffy.com Representing the Defendant, Imerys Talc America, Inc. TUCKER ELLIS, LLP BY: SANDRA J. WUNDERLICH, ESQ. 100 South Fourth Street, Suite 600 Saint Louis, Missouri 63102 (314) 256-2550 sandra.wunderlich@tuckerellis.com Representing the Defendant, PTI Royston LLC and PTI Union LLC SEYFARTH SHAW, LLP	5 8. Curriculum Vitae of 26 Dr. Crowley 9. Reference Section from 26 7 Dr. Crowley's Report 8 10. Sources Considered Section 29 from Dr. Crowley's Report 11. EPA Article Entitled "Basic 85 Information about Scientific Integrity 12. Office of Research Integrity 89 Article Entitled "Definition of Research Misconduct" 13 13. Anne C. Steinemann Article 96 Entitled "Fragranced Consumer Products and Undisclosed Ingredients" 14. Wikipedia Entry for "Mucous 100 Membrane"
6 7 8 9 10 11 12 13 14 15	Austin, Texas 78701 (512) 391-0197 kferguson@gordonrees.com - and - COUGHLIN DUFFY, LLP BY: JONATHAN F. DONATH, ESQ. 350 Mount Kemble Avenue Morristown, New Jersey 07962 (973) 267-0058 jdonath@coughlinduffy.com Representing the Defendant, Imerys Talc America, Inc. TUCKER ELLIS, LLP BY: SANDRA J. WUNDERLICH, ESQ. 100 South Fourth Street, Suite 600 Saint Louis, Missouri 63102 (314) 256-2550 sandra.wunderlich@tuckerellis.com Representing the Defendant, PTI Royston LLC and PTI Union LLC SEYFARTH SHAW, LLP BY: RENEE APPEL, ESQ.	5 8. Curriculum Vitae of 26 Dr. Crowley 6 9. Reference Section from 26 7 Dr. Crowley's Report 8 10. Sources Considered Section 29 from Dr. Crowley's Report 9 11. EPA Article Entitled "Basic 85 Information about Scientific Integrity 11 12. Office of Research Integrity 89 Article Entitled "Definition of Research Misconduct" 13 13. Anne C. Steinemann Article 96 Entitled "Fragranced Consumer Products and Undisclosed Ingredients" 14. Wikipedia Entry for "Mucous 100 Membrane" 15. The MSDS HyperGlossary: 103
6 7 8 9 10 11 12 13 14 15	Austin, Texas 78701 (512) 391-0197 kferguson@gordonrees.com - and - COUGHLIN DUFFY, LLP BY: JONATHAN F. DONATH, ESQ. 350 Mount Kemble Avenue Morristown, New Jersey 07962 (973) 267-0058 jdonath@coughlinduffy.com Representing the Defendant, Imerys Talc America, Inc. TUCKER ELLIS, LLP BY: SANDRA J. WUNDERLICH, ESQ. 100 South Fourth Street, Suite 600 Saint Louis, Missouri 63102 (314) 256-2550 sandra.wunderlich@tuckerellis.com Representing the Defendant, PTI Royston LLC and PTI Union LLC SEYFARTH SHAW, LLP BY: RENEE APPEL, ESQ. (Via Telephone)	5 8. Curriculum Vitae of 26 Dr. Crowley 6 9. Reference Section from 26 7 Dr. Crowley's Report 8 10. Sources Considered Section 29 from Dr. Crowley's Report 9 11. EPA Article Entitled "Basic 85 Information about Scientific Integrity 11 12. Office of Research Integrity 89 Article Entitled "Definition of Research Misconduct" 13 13. Anne C. Steinemann Article 96 Entitled "Fragranced Consumer Products and Undisclosed Ingredients" 14. Wikipedia Entry for "Mucous 100 Membrane" 15. The MSDS HyperGlossary: 103 Sensitizer
6 7 8 8 9 9 110 111 122 13 14 14 15 16 16 17 18 8	Austin, Texas 78701 (512) 391-0197 kferguson@gordonrees.com - and - COUGHLIN DUFFY, LLP BY: JONATHAN F. DONATH, ESQ. 350 Mount Kemble Avenue Morristown, New Jersey 07962 (973) 267-0058 jdonath@coughlinduffy.com Representing the Defendant, Imerys Talc America, Inc. TUCKER ELLIS, LLP BY: SANDRA J. WUNDERLICH, ESQ. 100 South Fourth Street, Suite 600 Saint Louis, Missouri 63102 (314) 256-2550 sandra.wunderlich@tuckerellis.com Representing the Defendant, PTI Royston LLC and PTI Union LLC SEYFARTH SHAW, LLP BY: RENEE APPEL, ESQ. (Via Telephone) 975 F Street, N.W	5 8. Curriculum Vitae of Dr. Crowley 6 9. Reference Section from 26 7 Dr. Crowley's Report 8 10. Sources Considered Section 29 from Dr. Crowley's Report 11. EPA Article Entitled "Basic 85 10 Information about Scientific Integrity 12. Office of Research Integrity 89 12 Article Entitled "Definition of Research Misconduct" 13 13. Anne C. Steinemann Article 96 14 Entitled "Fragranced Consumer Products and Undisclosed Ingredients" 15 Ingredients" 16 14. Wikipedia Entry for "Mucous 100 Membrane" 15 The MSDS HyperGlossary: 103 Sensitizer 19 16. EPA Article Entitled "The 120
6 7 8 9 9 110 111 122 133 144 115 116 117 118 119	Austin, Texas 78701 (512) 391-0197 kferguson@gordonrees.com - and - COUGHLIN DUFFY, LLP BY: JONATHAN F. DONATH, ESQ. 350 Mount Kemble Avenue Morristown, New Jersey 07962 (973) 267-0058 jdonath@coughlinduffy.com Representing the Defendant, Imerys Talc America, Inc. TUCKER ELLIS, LLP BY: SANDRA J. WUNDERLICH, ESQ. 100 South Fourth Street, Suite 600 Saint Louis, Missouri 63102 (314) 256-2550 sandra.wunderlich@tuckerellis.com Representing the Defendant, PTI Royston LLC and PTI Union LLC SEYFARTH SHAW, LLP BY: RENEE APPEL, ESQ. (Via Telephone)	5 8. Curriculum Vitae of Dr. Crowley 9. Reference Section from 26 Dr. Crowley's Report 8 10. Sources Considered Section 29 from Dr. Crowley's Report 11. EPA Article Entitled "Basic 85 Information about Scientific Integrity 12. Office of Research Integrity 89 Article Entitled "Definition of Research Misconduct" 13. Anne C. Steinemann Article 96 Entitled "Fragranced Consumer Products and Undisclosed Ingredients" 14. Wikipedia Entry for "Mucous 100 Membrane" 15. The MSDS HyperGlossary: 103 Sensitizer 19 16. EPA Article Entitled "The 120 NRC Risk Assessment Paradigm
6 7 8 9 9 110 111 122 133 144 115 116 117 118 119	Austin, Texas 78701 (512) 391-0197 kferguson@gordonrees.com - and - COUGHLIN DUFFY, LLP BY: JONATHAN F. DONATH, ESQ. 350 Mount Kemble Avenue Morristown, New Jersey 07962 (973) 267-0058 jdonath@coughlinduffy.com Representing the Defendant, Imerys Talc America, Inc. TUCKER ELLIS, LLP BY: SANDRA J. WUNDERLICH, ESQ. 100 South Fourth Street, Suite 600 Saint Louis, Missouri 63102 (314) 256-2550 sandra.wunderlich@tuckerellis.com Representing the Defendant, PTI Royston LLC and PTI Union LLC SEYFARTH SHAW, LLP BY: RENEE APPEL, ESQ. (Via Telephone) 975 F Street, N.W Washington, DC 20004 (202) 828-5371 rappel@seyfarth.com	5 8. Curriculum Vitae of Dr. Crowley 6 9. Reference Section from 26 7 Dr. Crowley's Report 8 10. Sources Considered Section 29 from Dr. Crowley's Report 9 11. EPA Article Entitled "Basic 85 10 Information about Scientific Integrity 11 12. Office of Research Integrity 89 Article Entitled "Definition of Research Misconduct" 13 13. Anne C. Steinemann Article 96 Entitled "Fragranced Consumer Products and Undisclosed Ingredients" 14 Wikipedia Entry for "Mucous 100 Membrane" 15 The MSDS HyperGlossary: 103 Sensitizer 19 16. EPA Article Entitled "The 120 NRC Risk Assessment Paradigm
6 7 8 9 110 111 12 13 14 14 15 16 17 18 19 220	Austin, Texas 78701 (512) 391-0197 kferguson@gordonrees.com - and - COUGHLIN DUFFY, LLP BY: JONATHAN F. DONATH, ESQ. 350 Mount Kemble Avenue Morristown, New Jersey 07962 (973) 267-0058 jdonath@coughlinduffy.com Representing the Defendant, Imerys Talc America, Inc. TUCKER ELLIS, LLP BY: SANDRA J. WUNDERLICH, ESQ. 100 South Fourth Street, Suite 600 Saint Louis, Missouri 63102 (314) 256-2550 sandra.wunderlich@tuckerellis.com Representing the Defendant, PTI Royston LLC and PTI Union LLC SEYFARTH SHAW, LLP BY: RENEE APPEL, ESQ. (Via Telephone) 975 F Street, N.W Washington, DC 20004 (202) 828-5371 rappel@seyfarth.com Representing the Defendant, Personal	5 8. Curriculum Vitae of Dr. Crowley 6 9. Reference Section from 26 7 Dr. Crowley's Report 8 10. Sources Considered Section 29 from Dr. Crowley's Report 9 11. EPA Article Entitled "Basic 85 Information about Scientific Integrity 11 12. Office of Research Integrity 89 Article Entitled "Definition of Research Misconduct" 13 13. Anne C. Steinemann Article 96 Entitled "Fragranced Consumer Products and Undisclosed Ingredients" 16 14. Wikipedia Entry for "Mucous 100 Membrane" 17 15. The MSDS HyperGlossary: 103 Sensitizer 19 16. EPA Article Entitled "The 120 NRC Risk Assessment Paradigm 17 17. Cosmetic Ingredient Review 155
6 7 8 9 9 1.0 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.9 1.0 1.1 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.9 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	Austin, Texas 78701 (512) 391-0197 kferguson@gordonrees.com - and - COUGHLIN DUFFY, LLP BY: JONATHAN F. DONATH, ESQ. 350 Mount Kemble Avenue Morristown, New Jersey 07962 (973) 267-0058 jdonath@coughlinduffy.com Representing the Defendant, Imerys Talc America, Inc. TUCKER ELLIS, LLP BY: SANDRA J. WUNDERLICH, ESQ. 100 South Fourth Street, Suite 600 Saint Louis, Missouri 63102 (314) 256-2550 sandra.wunderlich@tuckerellis.com Representing the Defendant, PTI Royston LLC and PTI Union LLC SEYFARTH SHAW, LLP BY: RENEE APPEL, ESQ. (Via Telephone) 975 F Street, N.W Washington, DC 20004 (202) 828-5371 rappel@seyfarth.com	5 8. Curriculum Vitae of Dr. Crowley 6 9. Reference Section from 26 7 Dr. Crowley's Report 8 10. Sources Considered Section 29 from Dr. Crowley's Report 11. EPA Article Entitled "Basic 85 10 Information about Scientific Integrity 12. Office of Research Integrity 89 12 Article Entitled "Definition of Research Misconduct" 13 13. Anne C. Steinemann Article 96 14 Entitled "Fragranced Consumer Products and Undisclosed Ingredients" 15 Ingredients" 16 14. Wikipedia Entry for "Mucous 100 Membrane" 17 18 Sensitizer 19 16. EPA Article Entitled "The 120 NRC Risk Assessment Paradigm 17. Cosmetic Ingredient Review 155 18 Procedures June 2018
6 7 8 9 9 1.0 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.9 1.0 1.1 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.9 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	Austin, Texas 78701 (512) 391-0197 kferguson@gordonrees.com - and - COUGHLIN DUFFY, LLP BY: JONATHAN F. DONATH, ESQ. 350 Mount Kemble Avenue Morristown, New Jersey 07962 (973) 267-0058 jdonath@coughlinduffy.com Representing the Defendant, Imerys Talc America, Inc. TUCKER ELLIS, LLP BY: SANDRA J. WUNDERLICH, ESQ. 100 South Fourth Street, Suite 600 Saint Louis, Missouri 63102 (314) 256-2550 sandra.wunderlich@tuckerellis.com Representing the Defendant, PTI Royston LLC and PTI Union LLC SEYFARTH SHAW, LLP BY: RENEE APPEL, ESQ. (Via Telephone) 975 F Street, N.W Washington, DC 20004 (202) 828-5371 rappel@seyfarth.com Representing the Defendant, Personal Care Products Counsel (PCPC)	5 8. Curriculum Vitae of Dr. Crowley 6 9. Reference Section from 26 7 Dr. Crowley's Report 8 10. Sources Considered Section 29 from Dr. Crowley's Report 11. EPA Article Entitled "Basic 85 10 Information about Scientific Integrity 12. Office of Research Integrity 89 12 Article Entitled "Definition of Research Misconduct" 13 13. Anne C. Steinemann Article 96 14 Entitled "Fragranced Consumer Products and Undisclosed Ingredients" 15 Ingredients" 16 14. Wikipedia Entry for "Mucous 100 Membrane" 17 18 Sensitizer 19 16. EPA Article Entitled "The 120 NRC Risk Assessment Paradigm 17. Cosmetic Ingredient Review 155 18 Procedures June 2018
6 7 8	Austin, Texas 78701 (512) 391-0197 kferguson@gordonrees.com - and - COUGHLIN DUFFY, LLP BY: JONATHAN F. DONATH, ESQ. 350 Mount Kemble Avenue Morristown, New Jersey 07962 (973) 267-0058 jdonath@coughlinduffy.com Representing the Defendant, Imerys Talc America, Inc. TUCKER ELLIS, LLP BY: SANDRA J. WUNDERLICH, ESQ. 100 South Fourth Street, Suite 600 Saint Louis, Missouri 63102 (314) 256-2550 sandra.wunderlich@tuckerellis.com Representing the Defendant, PTI Royston LLC and PTI Union LLC SEYFARTH SHAW, LLP BY: RENEE APPEL, ESQ. (Via Telephone) 975 F Street, N.W Washington, DC 20004 (202) 828-5371 rappel@seyfarth.com Representing the Defendant, Personal	5 8. Curriculum Vitae of Dr. Crowley 6 9. Reference Section from 26 7 Dr. Crowley's Report 8 10. Sources Considered Section 29 from Dr. Crowley's Report 9 11. EPA Article Entitled "Basic 85 10 Information about Scientific Integrity 11 12. Office of Research Integrity 89 12 Article Entitled "Definition of Research Misconduct" 13 13. Anne C. Steinemann Article 96 14 Entitled "Fragranced Consumer Products and Undisclosed Ingredients" 16 14. Wikipedia Entry for "Mucous 100 Membrane" 17 15. The MSDS HyperGlossary: 103 18 Sensitizer 19 16. EPA Article Entitled "The 120 NRC Risk Assessment Paradigm 17. Cosmetic Ingredient Review 155 21 Procedures June 2018 22 18. IFRA Document Entitled 157

	Page 6		Page 8
1 2	EXHIBITS (Cont'd)	1	
3	EXITERTS (Conta)	2	DEPOSITION SUPPORT INDEX
4 NO.	DESCRIPTION PAGE	3	
5 19.	Index of IFRA Standards - 163	4	
6	48th Amendment	5	Direction to Witness Not to Answer
20.	IFRA Standard - Peru Balsam 167	6	PAGE LINE
	Extracts and Distillates		None.
8 21.	IFRA Standard - Peru Balsam 171 Crude	7	
9	Crude	8	Request for Production of Documents
22.	Article Entitled "FDA 173	9	PAGE LINE
	Removes 7 Synthetic Flavoring Substances from Food		16 11
	Additives List"	10	
12 23.	Article Entitled "Evaluating 177	11	Stipulations
	the Potential Genotoxicity of Phthalates Esters (PAEs)	12	PAGE LINE
	in Perfumes Using In Vitro		None.
	Assays	13	
15 24.	GHS Info Sheet No. 7 - 203 Carcinogenicity	14	Questions Marked
16	Caremogementy	15	PAGE LINE
25.	IARC Monographs on the 239		None.
	Evaluation of Carcinogenic Risks to Humans - Preamble	16	
18	rtisks to Franklis Treamore	17	
26.	IARC Monograph Excerpts for 245	18	
19 20 27.	Styrene IARC Monograph Excerpts for 258	19	
	d-Limonene	20	
21	IADC Manageral Engages for 202	21	
28. 22	IARC Monograph Excerpts for 263 Coumarin	22	
23 29.	IARC Monograph Excerpts for 269	23	
24	Eugenol	24	
	Page 7		Page 9
24		24	Page 9
1	Page 7	24	
24		24 1 2	THE VIDEOGRAPHER: Here begins
1 2	Page 7 EXHIBITS (Cont'd) DESCRIPTION PAGE	1 2 3	THE VIDEOGRAPHER: Here begins the deposition of Dr. Michael Crowley.
1 2 3	Page 7 EXHIBITS (Cont'd) DESCRIPTION PAGE IARC Monograph Excerpts for 275	24 1 2	THE VIDEOGRAPHER: Here begins
1 2 3 4 NC 5 30.	Page 7 EXHIBITS (Cont'd) DESCRIPTION PAGE	1 2 3	THE VIDEOGRAPHER: Here begins the deposition of Dr. Michael Crowley.
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	Piletidel elo		
	Page 10		Page 12
1	provide a deposition as an expert witness on	1	Is that correct?
2	behalf of the plaintiffs. Is that right?	2	A. That's correct.
3	A. Yes.	3	Q. At some point today on a break,
4	Q. You've given deposition	4	if you could just read through the document
5	testimony in the past?	5	request and the notice of deposition, because
6	A. Yes.	6	I'd like to ask you the question, "Have you
7	Q. On how many occasions?	7	produced all responsive documents?" Can you
8	A. I believe four.	8	do that at some point today?
9	Q. What types of cases were those?	9	A. Yes.
10	A. Patent disputes and one contract	10	Q. You have in front of you your
11	dispute.	11	computer. For what purpose do you have your
12	Q. You are familiar with the	12	computer open today?
13	general rules we're going to follow.	13	A. My report and the materials that
14	Correct?	14	I viewed generating that report on it.
15	A. Yes.	15	Q. Anything else on the computer
16	Q. If at any time I ask you a	16	that you have with you here today
17	question or any of the counsel ask you a	17	A. Well, yes.
18	question that you don't understand, please	18	Q that's pertinent to this
19	don't answer it. Tell us you don't	19	deposition?
20	understand, and I will repeat or rephrase the	20	A. I don't think so. I mean, I
21	question so it is clear to you. Can you do	21	have scientific information on there that I
22	that?	22	use in the normal course of doing my business
23	A. Yes.	23	that are on the computer.
24	Q. If you answer a question, then	24	Q. Prior to the start of the
21	Q. If you answer a question, then		Q. The to the start of the
	Page 11		Page 13
1	we will assume that you understood it. Is	1	deposition, Counsel for the plaintiffs
2	that fair?	2	produced to us certain documents. I will
3	A. Yes.	3	mark those.
4	Q. You are here today pursuant to a	4	(Exhibit No. 2 marked)
5	notice of deposition. Is that right?	5	BY MR. ZELLERS:
6	A. I was never given a notice.	6	Q. First is a series of invoices.
7	Q. Let me provide you with a notice	7	We'll mark your invoices as Deposition
8	of deposition, which we'll mark as Deposition	8	Exhibit 2.
9	Exhibit 1.	9	Just quickly going through the
10	(Exhibit No. 1 marked)	10	invoices, it appears that the initial
11	MS. O'DELL: We'll just add that	11	invoice or at least the top invoice is for
12	objections to the notice have been	12	Wednesday, May 30th, 2018.
13	objections have been served to certain	13	Is that around the time that you
14	document requests that have been issued	14	were retained in this matter?
15	in the notice, so I would just reassert	15	A. I believe so.
16	those objections at this point.	16	Q. The invoices are addressed to
17	Prior to the beginning of the	17	Ms. O'Dell at the Beasley Allen firm. Is
18	deposition, I provided materials in	18	that the firm that has retained you with
19	response to the document request that	19	respect to the work you've done in the talc
20	plaintiffs deem non-objectionable, so	20	MDL?
21	just so the record is clear on that.	21	A. Yes.
22	BY MR. ZELLERS:	22	Q. The first page of Exhibit 2 is
23	Q. Dr. Crowley, you have not seen	23	Invoice 8015. We have Invoice 800 strike
24	the notice of deposition, Exhibit 1, before.	24	that 8022, Invoice 8027, Invoice 8035,
	r, <u></u>		· · · · · · · · · · · · · · · · · · ·

		1	
	Page 14		Page 16
1	Invoice 8041, Invoice 8043, with the last	1	Q of 2019?
2	time entry on Invoice 8043 being October of	2	A. No.
3	2018.	3	Q. The last invoice
4	Are these all of the invoices	4	A. I'd have to go check when my
5	that you have generated in the talc MDL	5	last invoice was. We sent the report in in
6	matter?	6	November, I think, so it was probably at the
7	A. No.	7	end of November.
8	Q. What additional invoices have	8	Q. What I would like to do is to
9	you generated in the talc MDL matter?	9	come back to this set of questions after the
10	A. Since that time, I've done some	10	break.
11	more work in preparing the document, my	11	MR. ZELLERS: And, Ms. O'Dell,
12	report, that I haven't submitted yet. I'll	12	if you could just check to see if there
13	submit an invoice for appearing here today.	13	are additional invoices.
14	MS. O'DELL: I think there was	14	BY MR. ZELLERS:
15	some confusion there.	15	Q. What is your recollection of the
16	MR. ZELLERS: I'll clear it up.	16	amount of time that you've spent on this
17	BY MR. ZELLERS:	17	matter, the talc MDL matter, during the month
18	Q. It appears that you are a	18	of November?
19	regular biller in that each of the invoices	19	A. I have no recollection. I'd
20	are done at the end of each month. Is that	20	have to go check the document.
21	your typical billing practice?	21	Q. Are you able to give me an
22	A. Yes.	22	estimate?
23	Q. So we have invoices that are	23	A. Well, I'll pull up the document
24	generated on a monthly basis through the	24	if you'd like.
	g		,
	Page 15		Page 17
1	invoices that or invoice that was	1	Q. My question is: Can you give us
2	generated on November 1st of 2018. Is that	2	an estimate?
3	right?	3	A. I'd prefer not. I'd prefer just
4	A. Yes.	4	to look at my invoice and tell you what it
5	Q. Did you generate an invoice on	5	says.
6	December 1st of 2018?	6	Q. Can you give us an estimate as
7	A. I believe I have, yeah.	7	to the amount of time that you spent in
8	Q. Do you have that here with you	8	December of 2018 relating to the talc MDL
9	today?	9	matter?
10	A. I have it on my computer.	10	A. (No audible response)
11	Q. All right. You can print it	11	Q. You're pulling something up on
12	here today?	12	your computer. Is that correct?
13	A. I believe so. I don't have	13	A. Uh-huh.
14	access to a printer, but if you can get me	14	Q. Okay. Do you need to do that in
15	access to a printer, I'll print it.	15	order to try to answer that question?
16	MS. O'DELL: I thought we had	16	A. I do. I don't recall I don't
17	all the invoices in the stack I gave	17	think there were many hours in December.
18	you. I will endeavor at a break to get	18	MS. O'DELL: Just testify to
19	the second the last invoice. Just	19	your recollection, Dr. Crowley, and to
20	an oversight.	20	the degree there's been an invoice
21	BY MR. ZELLERS:	21	produced or given to us that I
22	Q. Dr. Crowley, did you issue an	22	haven't produced, as I mentioned to
23	invoice on or about January 1st or 2nd	23	Counsel, that's an oversight. It was
24	A. No.	24	not intentional. I'll get that to you.
		<u></u>	
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	Page 18		Page 20
1	But to the degree you have a	1	A. No changes to my opinions.
2	memory or an estimate of hours, that's	2	Q. When did you prepare Deposition
3	fine. Just give an estimate.	3	Exhibit 3?
4	A. Yeah. I think in December it	4	A. It was before Christmas, I
5	was less than ten hours.	5	believe.
6	BY MR. ZELLERS:	6	Q. Can you be any more precise than
7	Q. Do you have an estimate for	7	that?
8	November?	8	A. Yes. I'll tell you the date.
9	A. I really I mean, I don't.	9	Q. Well, again, we don't want you
10	Q. How much time have you spent	10	to make this an exercise where you try to
11	during the first few days of this year, 2019,	11	look up each answer. If you have a rough
12	in preparation for the deposition here today?	12	A. I finished it on December 18th.
13	A. Less than ten.	13	Q. Thank you. Have you made any
14	Q. The next document that you	14	other changes or updates to your report?
15	brought with you today or that has been	15	A. No.
16	produced by counsel for the plaintiffs	16	Q. You said that information was
17	appears to be a supplement to your report.	17	provided to you shortly before you produced
18	We will mark that as Deposition Exhibit 3.	18	your report. Is that right?
19	(Exhibit No. 3 marked)	19	A. Yes.
20	BY MR. ZELLERS:	20	Q. My recollection is that you
21	Q. Deposition Exhibit 3 consists	21	produced a report in this matter and then a
22	of it appears to be nine pages of	22	week or two later you produced an updated
23	information. The first page at the top has	23	report. Is that right?
24	got a fragrance chemical description. The	24	A. No.
	Page 19		Page 21
1	next column, J&J CAS number. The next	1	MS. O'DELL: No. Object to the
2	column, Crowley CAS number, and then	2	form.
3	comments.	3	MR. ZELLERS: All right. I'll
4	Can you tell us what Exhibit 3	4	ask some specific questions when I get
5	is?	5	to that.
6	A. Yes. I think two or three days	6	BY MR. ZELLERS:
7	prior to submission of my expert report, we	7	Q. Your recollection is you have
8	were provided with a document from J&J that	8	only produced one report
9	disclosed the chemical abstract service	9	A. That's
10	numbers for all of the fragrance chemicals.	10	Q in this matter?
11	When I initiated work on this, I didn't have	11	A. That's correct.
12	CAS numbers, so I had to identify them for	12	Q. The next item that was produced
13	the chemicals as I had been given them.	13	today in connection with your deposition by
14	So this document is a	14	counsel for plaintiffs is Deposition
1 1 -	cross-reference that compares the CAS numbers	15	Exhibit 4.
15		1 16	(- 1 !! ! 3 - 1 . 1 . 1)
16	provided by J&J to those that I identified	16	(Exhibit No. 4 marked)
	provided by J&J to those that I identified for the fragrance chemicals and describes if	17	(Exhibit No. 4 marked) BY MR. ZELLERS:
16		1	BY MR. ZELLERS: Q. It appears to be an well, the
16 17	for the fragrance chemicals and describes if	17	BY MR. ZELLERS:
16 17 18	for the fragrance chemicals and describes if there is a dif what these differences are	17 18	BY MR. ZELLERS: Q. It appears to be an well, the
16 17 18 19	for the fragrance chemicals and describes if there is a dif what these differences are and if it has any bearing on the data in my	17 18 19	BY MR. ZELLERS: Q. It appears to be an well, the title of Deposition Exhibit 4 is "Guidance
16 17 18 19 20	for the fragrance chemicals and describes if there is a dif what these differences are and if it has any bearing on the data in my report.	17 18 19 20	BY MR. ZELLERS: Q. It appears to be an well, the title of Deposition Exhibit 4 is "Guidance for Industry Nonclinical Studies for the
16 17 18 19 20 21	for the fragrance chemicals and describes if there is a dif what these differences are and if it has any bearing on the data in my report. Q. How, if at all, does the	17 18 19 20 21	BY MR. ZELLERS: Q. It appears to be an well, the title of Deposition Exhibit 4 is "Guidance for Industry Nonclinical Studies for the Safety Evaluation of Pharmaceutical
16 17 18 19 20 21 22	for the fragrance chemicals and describes if there is a dif what these differences are and if it has any bearing on the data in my report. Q. How, if at all, does the information contained in Deposition Exhibit 3	17 18 19 20 21 22	BY MR. ZELLERS: Q. It appears to be an well, the title of Deposition Exhibit 4 is "Guidance for Industry Nonclinical Studies for the Safety Evaluation of Pharmaceutical Excipients."

		1	
	Page 22		Page 24
1	describing how pharmaceutical excipients	1	or information is contained on Exhibit 6?
2	are inactive ingredients are to be	2	A. This has my expert report and
3	examined for safety.	3	the underlying data upon which I relied to
4	Q. For what purpose did you bring	4	generate that report.
5	Deposition Exhibit 4 today?	5	Is it okay if I go ahead and
6	A. This represents the FDA's	6	plug it in, or is that for you?
7	current thinking on how to examine inactive	7	Q. Do you need to plug it in, or is
8	ingredients for safety.	8	it already on your computer?
9	Q. What's the date of	9	A. It's already there.
10	A. This was issued in May of 2005.	10	Q. No. Put that aside, and we'll
11	Q. That is the most up-to-date	11	have the court reporter make a copy of that,
12	guidance document from the FDA. Is that	12	and that will be a part of this record.
13	right?	13	Is there anything new or
14	A. I believe so.	14	additional on the thumb drive which we have
15	Q. Do you believe that that	15	marked as Exhibit 6 that has either not been
16	document applies to fragrance chemicals that	16	produced here today or was a part of your
17	you're talking about here today?	17	report?
18	A. Yes.	18	A. I don't believe so.
19	Q. Deposition Exhibit No. 5 is a	19	MS. O'DELL: No. I can just say
20	textbook.	20	that because I prepared the jump drive.
21	MR. ZELLERS: We'll make	21	I think it might be just quicker
22	arrangements or figure out how to make	22	to use the jump drive to pull up
23	this a part of the record.	23	documents because of the internet
24	(Exhibit No. 5 marked)	24	access in this room. So I'll just make
24	(Exhibit No. 5 marked)	21	access in this room. So in just make
	Page 23		Page 25
1	BY MR. ZELLERS:	1	that as an observation. If you don't
2	Q. But it's titled "Excipient	2	have any objection to him using the
3	Toxicity and Safety," edited by Myra Weiner	3	jump drive you're welcome to to
4	and Lois Kotkoskie, Volume 103.	4	look at it in advance, but
5	A. Marcel Dekker is the publisher.	5	BY MR. ZELLERS:
6	Q. It appears to be a 2007	6	Q. Dr. Crowley, if, as we go along,
7	publication. Can you tell us generally what	7	you need to make reference to the jump drive,
8	Exhibit 5 is?	8	you know, please do. Tell us that you're
9	A. It's a book describing how	9	going to be making a reference to it so we're
10	toxicity and safety studies are to be	10	all aware as to what you're doing and what
11	conducted for inactive ingredients.	11	documents you are reviewing.
12	Q. For what purpose have you	12	I do intend to give you hard
13	brought with you Exhibit 5 today?	13	copies of the documents that I have questions
14	A. For reference.	14	about, but if you need to plug in the jump
15	Q. Finally, you have brought with	15	drive and refer to it, it's okay with me, as
16	you or has been produced through counsel	16	long as you state on the record what it is
17	for plaintiffs a thumb drive, which we will	17	you're doing.
18	mark as Deposition Exhibit 6.	18	A. Okay.
19	(Exhibit No. 6 marked)	19	Q. Your report in this matter we
20	BY MR. ZELLERS:	20	will mark as Deposition Exhibit 7.
21	Q. Are you familiar with Deposition	21	(Exhibit No. 7 marked)
22	Exhibit 6?	22	BY MR. ZELLERS:
ı - -	A. Yes.	23	
23			
23 24		1	· · · · · · · · · · · · · · · · · · ·
23 24	Q. Can you tell us what documents	24	Exhibit 7 and tell us if that is your report?

		1	
	Page 26		Page 28
1	A. It looks like it, yes.	1	you cite to in your report. Is that right?
2	MS. O'DELL: You're happy to	2	A. In the body of the report,
3	offload whatever you have?	3	that's correct. There were more things that
4	MR. ZELLERS: Exactly. I'm	4	I cited in the appendices.
5	going to insist that you all take a	5	Q. Are the appendices a part of
6	copy of Dr. Crowley's report.	6	your report?
7	BY MR. ZELLERS:	7	A. Yes.
8	Q. A part of your report is your	8	Q. The references, what we have
9	curriculum vitae or CV. Let's mark that as	9	marked as Exhibit 9, is that a complete
10	Deposition Exhibit 8.	10	listing of all the citations in your report,
11	(Exhibit No. 8 marked)	11	including appendices?
12	BY MR. ZELLERS:	12	A. No.
13	Q. And if you will just identify	13	MS. O'DELL: Object to form.
14	for us what Deposition Exhibit 8 is?	14	A. Yeah. No. There were reports
15	A. It's my CV.	15	from the literature, internet links within
16	Q. Is Deposition Exhibit 8 your	16	the appendices that do not appear in
17	current and up-to-date curriculum vitae?	17	Section 7 of my report.
18	A. Yes.	18	BY MR. ZELLERS:
19	(Exhibit No. 9 marked)	19	Q. In order, then, for counsel in
20	BY MR. ZELLERS:	20	this case to understand what is cited in your
21	Q. Deposition Exhibit 9 is a	21	report, we need to look at the body of the
22	four-page document. It is from your report,	22	report and take a look at the list of
23	which is Exhibit 7. Deposition 9 are	23	references. Is that correct?
24	Pages 66 through 69 of your report, and the	24	A. You need to look at the entire
	Page 27		Page 29
1	caption at the top is "References."	1	report, the body of the report and the
2	Can you look at Deposition	2	appendices.
3	Exhibit 9 and tell us what that is?	3	Q. Did you prepare the reference
4	A. This appears to be the reference	4	list?
5	section from my report.	5	A. I did.
6	Q. What strike that.	6	(Exhibit No. 10 marked)
7	How do you use the term	7	BY MR. ZELLERS:
8	"reference"? What do you mean by "reference"	8	Q. Deposition Exhibit 10 also comes
9	when you put that	9	from your report, Pages 15, 16, and 17. I'm
10	A. These are items that I cited	10	looking at the section of Deposition
11	within the report.	11	Exhibit 10 that begins "Sources Considered."
12	MS. O'DELL: Do you need me to	12	Can you take a look at
13	give something back?	13	Exhibit 10 and tell us what that refers to?
14	MR. ZELLERS: No. But this will	14	A. This is a list of sources that I
		1 1 -	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
15	be 10 as well as what I'm handing to	15	considered during the generation of my
16	you.	16	report.
16 17	you. MS. O'DELL: Okay.	16 17	report. Q. What is the difference between
16 17 18	you. MS. O'DELL: Okay. MR. ZELLERS: The witness just	16 17 18	report. Q. What is the difference between the references and the sources that you
16 17 18 19	you. MS. O'DELL: Okay. MR. ZELLERS: The witness just has 9 right now, which is the first	16 17 18 19	report. Q. What is the difference between the references and the sources that you considered?
16 17 18 19 20	you. MS. O'DELL: Okay. MR. ZELLERS: The witness just has 9 right now, which is the first document.	16 17 18 19 20	report. Q. What is the difference between the references and the sources that you considered? A. Well, references are things that
16 17 18 19 20 21	you. MS. O'DELL: Okay. MR. ZELLERS: The witness just has 9 right now, which is the first document. MS. O'DELL: Okay.	16 17 18 19 20 21	report. Q. What is the difference between the references and the sources that you considered? A. Well, references are things that I cited, and sources considered are things
16 17 18 19 20 21	you. MS. O'DELL: Okay. MR. ZELLERS: The witness just has 9 right now, which is the first document. MS. O'DELL: Okay. BY MR. ZELLERS:	16 17 18 19 20 21 22	report. Q. What is the difference between the references and the sources that you considered? A. Well, references are things that I cited, and sources considered are things that I looked at.
16 17 18 19 20 21 22 23	you. MS. O'DELL: Okay. MR. ZELLERS: The witness just has 9 right now, which is the first document. MS. O'DELL: Okay. BY MR. ZELLERS: Q. References to you, in which	16 17 18 19 20 21 22 23	report. Q. What is the difference between the references and the sources that you considered? A. Well, references are things that I cited, and sources considered are things that I looked at. Q. Is the listing of sources
16 17 18 19 20 21	you. MS. O'DELL: Okay. MR. ZELLERS: The witness just has 9 right now, which is the first document. MS. O'DELL: Okay. BY MR. ZELLERS:	16 17 18 19 20 21 22	report. Q. What is the difference between the references and the sources that you considered? A. Well, references are things that I cited, and sources considered are things that I looked at.

Page 30 Page 32 1 listing of the materials and sources that you 1 is the safety profile, and what's known about 2 considered in preparing your report and in 2 3 developing your opinions in this case? 3 Q. Are the opinions which you're 4 A. I believe so. I tried to 4 rendering in this case limited to the 5 capture them all. I may have missed a few. 5 fragrance components of the talcum powder products manufactured by Johnson & Johnson 6 Q. How would you define the area of 6 7 Consumer Products, Inc.? 7 expertise in which you're offering opinions MS. O'DELL: Object to form. 8 in this case? 8 9 A. I'm not sure I understand your 9 A. Chemistry, molecular 10 question. 10 pharmaceutics, formulation science, BY MR. ZELLERS: 11 pharmacology, toxicology. 11 12 Q. You consider yourself to be an 12 Q. The opinions that you are rendering in this case, are they limited to 13 expert in each of those subject areas? 13 the fragrance components of the talcum powder 14 A. I consider myself to be an 14 expert in chemistry and pharmaceutical 15 products manufactured by Johnson & Johnson 15 16 science, as well as formulation matters. 16 Consumer Products, Inc.? 17 O. Anything else? 17 A. Yes. 18 I think that's a pretty good 18 And -- I'll strike that. A. 19 descriptor. 19 Can we agree that when I refer 20 to either products or talc products or baby 20 Deposition Exhibit 7 is your O. 21 report in this case. Does that report 21 powder or Shower to Shower, that I'm contain all of the opinions that you intend 22 referring to the baby powder product 22 23 to offer as a witness in this matter? 23 manufactured by Johnson & Johnson Consumer 24 Products, Inc., and the Shower to Shower 24 A. Yes. Page 31 Page 33 1 Is the report accurate? 1 product formerly manufactured by Johnson & 2 A. I believe it is. 2 Johnson Consumer Products, Inc.? 3 MS. O'DELL: Object to form. 3 Q. Is it complete? A. I believe so. 4 A. I can agree to that 4 5 5 Appendix A, which is a baby understanding. powder fragrance chemical review, what was 6 BY MR. ZELLERS: 6 7 the purpose of you preparing that appendix? 7 Q. You do not have an opinion -- or 8 A. I was asked to review the 8 not expressing any opinions in this case as 9 to whether or not talc products are 9 physical and chemical properties of each of these fragrance chemicals, and I created that contaminated with asbestos. Is that right? 10 10 list to capture the results of the evidence 11 11 I was not asked to consider 12 that I found. 12 that. 13 Q. How did you decide what 13 Do you think you have produced information to include in Appendix A? in this matter all of your file relating to 14 14 15 A. Well, I was asked a couple of 15 the expert work that you have done? And by "produced," I mean in your report and as 16 questions, as described in my report, and 16 supplemented by the exhibits that we've 17 that seemed to be a logical framework in 17 18 which to collate the information. 18 marked here today. 19 19 And, frankly, it's consistent I believe so. 20 with how a formulation scientist would 20 Q. Did anyone assist you in 21 consider inactive ingredients when creating a 21 preparing your report? Yes. 22 new composition. So you consider what are 22 A. the properties of these materials, both from Who assisted you in preparing 23 23 Q. 24 a chemical and biological perspective, what 24 your report?

	Page 34		Page 36
1	A. My wife.	1	A. No.
2	Q. Your wife's name is?	2	Q. Are you aware of any documents
3	A. Carrie, C-A-R-I-E, Asher,	3	relating to your review in this matter that
4	A-S-H-E-R, Crowley.	4	have not been identified either as sources
5	Q. What did Ms. Asher Crowley do to	5	considered or in your reference list?
6	assist you in preparing your report in this	6	A. I don't think so. I mean, I've
7	matter?	7	seen some things in the news recently, but
8	A. So she helped me identify some	8	they didn't impact my report.
9	of the fragrance chemicals.	9	MS. O'DELL: I'll just add for
10	Q. Anything else?	10	the record: Other than what's been
11	A. No.	11	marked as an exhibit here, just to make
12	Q. Do you bill separately for the	12	it clear.
13	services of your wife, Ms. Asher Crowley?	13	MR. ZELLERS: Yes.
14	A. Yes.	14	A. I did my best to keep track of
15	Q. When I go back and I look	15	and provide either in the references or,
16	through the invoices that have been produced	16	you know, disclosed within sources considered
17	and that we've marked as Exhibit 2, will I	17	or within the appendices everything that I
18	see references to Ms. Asher Crowley?	18	looked at.
19	A. I think you'll see a different	19	BY MR. ZELLERS:
20	bill rate for her time.	20	Q. When you were strike that.
21	Q. Your bill rate is what?	21	Were you first contacted by
22	A. \$600 an hour.	22	Ms. O'Dell to become involved as an expert in
23	Q. Is your bill rate the same for	23	this matter?
24	doing the review and preparation of the	24	A. No. Margaret Thompson initially
	5 1 1		2 1
	Page 35		Page 37
	5		rage 37
1	report as it is for sitting for a deposition	1	contacted me.
2		2	contacted me. Q. When Ms. Thompson contacted you,
	report as it is for sitting for a deposition here today? A. Yes.		contacted me.
2 3 4	report as it is for sitting for a deposition here today? A. Yes. Q. Is your hourly rate of \$600 an	2	contacted me. Q. When Ms. Thompson contacted you, you believe it was either April or May strike that.
2 3 4 5	report as it is for sitting for a deposition here today? A. Yes. Q. Is your hourly rate of \$600 an hour the same for any trial testimony or	2 3 4 5	contacted me. Q. When Ms. Thompson contacted you, you believe it was either April or May strike that. You believe it was May of 2018?
2 3 4 5 6	report as it is for sitting for a deposition here today? A. Yes. Q. Is your hourly rate of \$600 an hour the same for any trial testimony or hearing testimony that you may provide?	2 3 4 5 6	contacted me. Q. When Ms. Thompson contacted you, you believe it was either April or May strike that. You believe it was May of 2018? A. That's about the right
2 3 4 5 6 7	report as it is for sitting for a deposition here today? A. Yes. Q. Is your hourly rate of \$600 an hour the same for any trial testimony or hearing testimony that you may provide? A. Yes.	2 3 4 5 6 7	contacted me. Q. When Ms. Thompson contacted you, you believe it was either April or May strike that. You believe it was May of 2018? A. That's about the right timeframe.
2 3 4 5 6 7 8	report as it is for sitting for a deposition here today? A. Yes. Q. Is your hourly rate of \$600 an hour the same for any trial testimony or hearing testimony that you may provide? A. Yes. Q. Ms. Asher Crowley, what is her	2 3 4 5 6 7 8	contacted me. Q. When Ms. Thompson contacted you, you believe it was either April or May strike that. You believe it was May of 2018? A. That's about the right timeframe. Q. I'm looking at
2 3 4 5 6 7 8	report as it is for sitting for a deposition here today? A. Yes. Q. Is your hourly rate of \$600 an hour the same for any trial testimony or hearing testimony that you may provide? A. Yes. Q. Ms. Asher Crowley, what is her billing rate?	2 3 4 5 6 7 8	contacted me. Q. When Ms. Thompson contacted you, you believe it was either April or May strike that. You believe it was May of 2018? A. That's about the right timeframe. Q. I'm looking at A. I don't recall the exact date.
2 3 4 5 6 7 8 9	report as it is for sitting for a deposition here today? A. Yes. Q. Is your hourly rate of \$600 an hour the same for any trial testimony or hearing testimony that you may provide? A. Yes. Q. Ms. Asher Crowley, what is her billing rate? A. I think it was \$300 an hour.	2 3 4 5 6 7 8 9	contacted me. Q. When Ms. Thompson contacted you, you believe it was either April or May strike that. You believe it was May of 2018? A. That's about the right timeframe. Q. I'm looking at A. I don't recall the exact date. Q. I'm looking at Deposition
2 3 4 5 6 7 8 9 10	report as it is for sitting for a deposition here today? A. Yes. Q. Is your hourly rate of \$600 an hour the same for any trial testimony or hearing testimony that you may provide? A. Yes. Q. Ms. Asher Crowley, what is her billing rate? A. I think it was \$300 an hour. Q. Any other services or assistance	2 3 4 5 6 7 8 9 10	contacted me. Q. When Ms. Thompson contacted you, you believe it was either April or May strike that. You believe it was May of 2018? A. That's about the right timeframe. Q. I'm looking at A. I don't recall the exact date. Q. I'm looking at Deposition Exhibit 2, and that appears to be the first
2 3 4 5 6 7 8 9 10 11 12	report as it is for sitting for a deposition here today? A. Yes. Q. Is your hourly rate of \$600 an hour the same for any trial testimony or hearing testimony that you may provide? A. Yes. Q. Ms. Asher Crowley, what is her billing rate? A. I think it was \$300 an hour. Q. Any other services or assistance that Ms. Crowley provided to you in terms of	2 3 4 5 6 7 8 9 10 11 12	contacted me. Q. When Ms. Thompson contacted you, you believe it was either April or May strike that. You believe it was May of 2018? A. That's about the right timeframe. Q. I'm looking at A. I don't recall the exact date. Q. I'm looking at Deposition Exhibit 2, and that appears to be the first time entry that you have on this matter.
2 3 4 5 6 7 8 9 10 11 12 13	report as it is for sitting for a deposition here today? A. Yes. Q. Is your hourly rate of \$600 an hour the same for any trial testimony or hearing testimony that you may provide? A. Yes. Q. Ms. Asher Crowley, what is her billing rate? A. I think it was \$300 an hour. Q. Any other services or assistance that Ms. Crowley provided to you in terms of preparing your report and developing your	2 3 4 5 6 7 8 9 10 11 12 13	contacted me. Q. When Ms. Thompson contacted you, you believe it was either April or May strike that. You believe it was May of 2018? A. That's about the right timeframe. Q. I'm looking at A. I don't recall the exact date. Q. I'm looking at Deposition Exhibit 2, and that appears to be the first time entry that you have on this matter. Does that refresh your recollection?
2 3 4 5 6 7 8 9 10 11 12 13 14	report as it is for sitting for a deposition here today? A. Yes. Q. Is your hourly rate of \$600 an hour the same for any trial testimony or hearing testimony that you may provide? A. Yes. Q. Ms. Asher Crowley, what is her billing rate? A. I think it was \$300 an hour. Q. Any other services or assistance that Ms. Crowley provided to you in terms of preparing your report and developing your opinions in this matter?	2 3 4 5 6 7 8 9 10 11 12 13	contacted me. Q. When Ms. Thompson contacted you, you believe it was either April or May strike that. You believe it was May of 2018? A. That's about the right timeframe. Q. I'm looking at A. I don't recall the exact date. Q. I'm looking at Deposition Exhibit 2, and that appears to be the first time entry that you have on this matter. Does that refresh your recollection? A. I got a contact. We went and
2 3 4 5 6 7 8 9 10 11 12 13 14 15	report as it is for sitting for a deposition here today? A. Yes. Q. Is your hourly rate of \$600 an hour the same for any trial testimony or hearing testimony that you may provide? A. Yes. Q. Ms. Asher Crowley, what is her billing rate? A. I think it was \$300 an hour. Q. Any other services or assistance that Ms. Crowley provided to you in terms of preparing your report and developing your opinions in this matter? A. The opinions are mine. She did	2 3 4 5 6 7 8 9 10 11 12 13 14	contacted me. Q. When Ms. Thompson contacted you, you believe it was either April or May strike that. You believe it was May of 2018? A. That's about the right timeframe. Q. I'm looking at A. I don't recall the exact date. Q. I'm looking at Deposition Exhibit 2, and that appears to be the first time entry that you have on this matter. Does that refresh your recollection? A. I got a contact. We went and talked by phone and had a few additional
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	report as it is for sitting for a deposition here today? A. Yes. Q. Is your hourly rate of \$600 an hour the same for any trial testimony or hearing testimony that you may provide? A. Yes. Q. Ms. Asher Crowley, what is her billing rate? A. I think it was \$300 an hour. Q. Any other services or assistance that Ms. Crowley provided to you in terms of preparing your report and developing your opinions in this matter? A. The opinions are mine. She did not provide any opinions. She just simply	2 3 4 5 6 7 8 9 10 11 12 13 14 15	contacted me. Q. When Ms. Thompson contacted you, you believe it was either April or May strike that. You believe it was May of 2018? A. That's about the right timeframe. Q. I'm looking at A. I don't recall the exact date. Q. I'm looking at Deposition Exhibit 2, and that appears to be the first time entry that you have on this matter. Does that refresh your recollection? A. I got a contact. We went and talked by phone and had a few additional conversations before I agreed to take this
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	report as it is for sitting for a deposition here today? A. Yes. Q. Is your hourly rate of \$600 an hour the same for any trial testimony or hearing testimony that you may provide? A. Yes. Q. Ms. Asher Crowley, what is her billing rate? A. I think it was \$300 an hour. Q. Any other services or assistance that Ms. Crowley provided to you in terms of preparing your report and developing your opinions in this matter? A. The opinions are mine. She did not provide any opinions. She just simply helped me identify some of the fragrance	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	contacted me. Q. When Ms. Thompson contacted you, you believe it was either April or May strike that. You believe it was May of 2018? A. That's about the right timeframe. Q. I'm looking at A. I don't recall the exact date. Q. I'm looking at Deposition Exhibit 2, and that appears to be the first time entry that you have on this matter. Does that refresh your recollection? A. I got a contact. We went and talked by phone and had a few additional conversations before I agreed to take this particular matter on. So that would
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	report as it is for sitting for a deposition here today? A. Yes. Q. Is your hourly rate of \$600 an hour the same for any trial testimony or hearing testimony that you may provide? A. Yes. Q. Ms. Asher Crowley, what is her billing rate? A. I think it was \$300 an hour. Q. Any other services or assistance that Ms. Crowley provided to you in terms of preparing your report and developing your opinions in this matter? A. The opinions are mine. She did not provide any opinions. She just simply helped me identify some of the fragrance chemicals.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	contacted me. Q. When Ms. Thompson contacted you, you believe it was either April or May strike that. You believe it was May of 2018? A. That's about the right timeframe. Q. I'm looking at A. I don't recall the exact date. Q. I'm looking at Deposition Exhibit 2, and that appears to be the first time entry that you have on this matter. Does that refresh your recollection? A. I got a contact. We went and talked by phone and had a few additional conversations before I agreed to take this particular matter on. So that would represent what you're looking at is the
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	report as it is for sitting for a deposition here today? A. Yes. Q. Is your hourly rate of \$600 an hour the same for any trial testimony or hearing testimony that you may provide? A. Yes. Q. Ms. Asher Crowley, what is her billing rate? A. I think it was \$300 an hour. Q. Any other services or assistance that Ms. Crowley provided to you in terms of preparing your report and developing your opinions in this matter? A. The opinions are mine. She did not provide any opinions. She just simply helped me identify some of the fragrance chemicals. Q. Is there anything else that she	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	contacted me. Q. When Ms. Thompson contacted you, you believe it was either April or May strike that. You believe it was May of 2018? A. That's about the right timeframe. Q. I'm looking at A. I don't recall the exact date. Q. I'm looking at Deposition Exhibit 2, and that appears to be the first time entry that you have on this matter. Does that refresh your recollection? A. I got a contact. We went and talked by phone and had a few additional conversations before I agreed to take this particular matter on. So that would represent what you're looking at is the first item I billed.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	report as it is for sitting for a deposition here today? A. Yes. Q. Is your hourly rate of \$600 an hour the same for any trial testimony or hearing testimony that you may provide? A. Yes. Q. Ms. Asher Crowley, what is her billing rate? A. I think it was \$300 an hour. Q. Any other services or assistance that Ms. Crowley provided to you in terms of preparing your report and developing your opinions in this matter? A. The opinions are mine. She did not provide any opinions. She just simply helped me identify some of the fragrance chemicals. Q. Is there anything else that she did other than help to identify some of the	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	contacted me. Q. When Ms. Thompson contacted you, you believe it was either April or May strike that. You believe it was May of 2018? A. That's about the right timeframe. Q. I'm looking at A. I don't recall the exact date. Q. I'm looking at Deposition Exhibit 2, and that appears to be the first time entry that you have on this matter. Does that refresh your recollection? A. I got a contact. We went and talked by phone and had a few additional conversations before I agreed to take this particular matter on. So that would represent what you're looking at is the first item I billed. And at the time that we first
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	Page 38		Page 40
1	protective order and engagement letter. I	1	deal with those objections at a later time.
2	would consider that when we first got	2	So, once she has made her objection, you can
3	engaged. We can get you, you know, those	3	go ahead and answer the question as long as
4	dates if you'd like.	4	you understand it.
5	Q. Does April or spring strike	5	A. Okay. I'm sorry. Can you
6	that.	6	repeat the question?
7	Does April or May of 2018 sound	7	Q. Sure. This additional topic
8	about right?	8	that you were asked to consider by
9	A. Yes.	9	plaintiffs' counsel, you never got to the
10	Q. What did Ms. Thompson ask you to	10	point of considering it or formulating any
11	do with respect to this matter?	11	opinions. Is that right?
12	A. She indicated that she and her	12	A. I did put some time in
13	colleagues were looking for an expert to	13	considering it, but I ran out of time to
14	review the fragrance chemicals in the talcum	14	properly research it, and I think I won't be
15	powder products and provide some additional	15	rendering an opinion on it today.
16	information.	16	Q. Any other topics that you were
17	Q. When were you first asked to	17	asked to address by either Ms. Thompson or
18	prepare a report?	18	any of the counsel for plaintiffs in this
19	A. I would say midsummer, June,	19	matter?
20	July.	20	A. No.
21	Q. Were you given any additional	21	Q. Originally defense counsel were
22	instruction in terms of what plaintiffs'	22	provided with a report that was dated
23	counsel wanted you to do or were requesting	23	November 12th of 2018. We then received a
24	that you do in this matter around the time	24	second slightly revised report around
	Page 39		Page 41
1	Page 39 that you were asked to prepare a report?	1	Page 41 December 4th of 2018. Are you familiar with
1 2		1 2	
	that you were asked to prepare a report?		December 4th of 2018. Are you familiar with
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	Page 42		Page 44
1	aside from this matter, the talc MDL?	1	A. Yes.
2	A. No.	2	Q. Are there any employees of
3	Q. Have you done any expert work or	3	Theridian Technologies, LLC, other than
4	consulting work in any other talcum powder	4	yourself?
5	matters?	5	A. My wife.
6	A. No.	6	Q. Any others?
7	Q. What percentage well, strike	7	A. No.
8	that.	8	Q. You strike that.
9	You work for a consulting firm.	9	What percent of your time at
10	Is that right?	10	Theridian Technologies involves legal or
11	A. I own a consulting firm.	11	litigation consulting?
12	Q. The name of that consulting firm	12	A. Time, probably 25 percent.
13	is what?	13	Q. In terms
14	A. Theridian Technologies, LLC.	14	A. I mean, it varies. I mean,
15	Q. Do you devote 100 percent of	15	sometimes it's more than others, but over the
16	your professional time to your work for that	16	course of a year, maybe 25 percent.
17	consulting firm?	17	Q. In terms of income of Theridian
18	A. No.	18	Technologies, what percent of income is
19	Q. What percent or strike that.	19	accounted for by legal consulting work?
20	What percent of your	20	A. Again, it varies year to year.
21	professional time do you devote to your	21	It's probably somewhere in the 10 to
22	consulting firm Theridian Technologies?	22	20 percent range.
23	A. Somewhere between two-thirds and	23	Q. You told us that you serve as an
24	three-quarters, I would say.	24	expert in other cases. Is that right?
	Page 43		Page 45
1	Q. How do you spend your other	1	A. Yes.
2	professional time?	2	Q. Is this the first time that you
3	A. I co-founded a startup called	3	
	A. 1 co-lounded a startup cance		have cerved as an expert in a case involving
4	it was originally called Oticus Laboratories		have served as an expert in a case involving
4 5	it was originally called Oticus Laboratories.	4	an allegation of personal injuries?
5	It's it's been renamed Oticara	4 5	an allegation of personal injuries? A. Yes.
5 6	It's it's been renamed Oticara Corporation. I've recently closed a	4 5 6	an allegation of personal injuries? A. Yes. Q. Is this the first time that you
5 6 7	It's it's been renamed Oticara Corporation. I've recently closed a significant funding round. We're doing	4 5 6 7	an allegation of personal injuries? A. Yes. Q. Is this the first time that you have served as an expert in a product
5 6 7 8	It's it's been renamed Oticara Corporation. I've recently closed a significant funding round. We're doing clinical studies.	4 5 6 7 8	an allegation of personal injuries? A. Yes. Q. Is this the first time that you have served as an expert in a product liability matter?
5 6 7	It's it's been renamed Oticara Corporation. I've recently closed a significant funding round. We're doing clinical studies. And I serve on the board of	4 5 6 7	an allegation of personal injuries? A. Yes. Q. Is this the first time that you have served as an expert in a product liability matter? A. Yes.
5 6 7 8 9	It's it's been renamed Oticara Corporation. I've recently closed a significant funding round. We're doing clinical studies. And I serve on the board of another company, so	4 5 6 7 8 9	an allegation of personal injuries? A. Yes. Q. Is this the first time that you have served as an expert in a product liability matter? A. Yes. Q. The depositions that you have
5 6 7 8 9	It's it's been renamed Oticara Corporation. I've recently closed a significant funding round. We're doing clinical studies. And I serve on the board of another company, so THE REPORTER: Of another	4 5 6 7 8 9	an allegation of personal injuries? A. Yes. Q. Is this the first time that you have served as an expert in a product liability matter? A. Yes. Q. The depositions that you have given strike that.
5 6 7 8 9 10 11	It's it's been renamed Oticara Corporation. I've recently closed a significant funding round. We're doing clinical studies. And I serve on the board of another company, so	4 5 6 7 8 9 10 11	an allegation of personal injuries? A. Yes. Q. Is this the first time that you have served as an expert in a product liability matter? A. Yes. Q. The depositions that you have given strike that. You have given, you thought,
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5 6 7 8 9 10 11 12 13 14 15	It's it's been renamed Oticara Corporation. I've recently closed a significant funding round. We're doing clinical studies. And I serve on the board of another company, so THE REPORTER: Of another company? THE WITNESS: Yes. THE REPORTER: Try to keep your	4 5 6 7 8 9 10 11 12 13 14 15	an allegation of personal injuries? A. Yes. Q. Is this the first time that you have served as an expert in a product liability matter? A. Yes. Q. The depositions that you have given strike that. You have given, you thought, four or five depositions previously? A. I think four. Q. Two of the matters you've identified. One as Grunenthal versus
5 6 7 8 9 10 11 12 13 14 15	It's it's been renamed Oticara Corporation. I've recently closed a significant funding round. We're doing clinical studies. And I serve on the board of another company, so THE REPORTER: Of another company? THE WITNESS: Yes. THE REPORTER: Try to keep your voice up for me. THE WITNESS: Sorry. BY MR. ZELLERS:	4 5 6 7 8 9 10 11 12 13 14 15	an allegation of personal injuries? A. Yes. Q. Is this the first time that you have served as an expert in a product liability matter? A. Yes. Q. The depositions that you have given strike that. You have given, you thought, four or five depositions previously? A. I think four. Q. Two of the matters you've identified. One as Grunenthal versus A. It's pronounced Grunenthal.
5 6 7 8 9 10 11 12 13 14 15 16	It's it's been renamed Oticara Corporation. I've recently closed a significant funding round. We're doing clinical studies. And I serve on the board of another company, so THE REPORTER: Of another company? THE WITNESS: Yes. THE REPORTER: Try to keep your voice up for me. THE WITNESS: Sorry. BY MR. ZELLERS: Q. What is the name of the company	4 5 6 7 8 9 10 11 12 13 14 15 16 17	an allegation of personal injuries? A. Yes. Q. Is this the first time that you have served as an expert in a product liability matter? A. Yes. Q. The depositions that you have given strike that. You have given, you thought, four or five depositions previously? A. I think four. Q. Two of the matters you've identified. One as Grunenthal versus A. It's pronounced Grunenthal. Q. Grunenthal versus Teva, and then
5 6 7 8 9 10 11 12 13 14 15 16 17	It's it's been renamed Oticara Corporation. I've recently closed a significant funding round. We're doing clinical studies. And I serve on the board of another company, so THE REPORTER: Of another company? THE WITNESS: Yes. THE REPORTER: Try to keep your voice up for me. THE WITNESS: Sorry. BY MR. ZELLERS:	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	an allegation of personal injuries? A. Yes. Q. Is this the first time that you have served as an expert in a product liability matter? A. Yes. Q. The depositions that you have given strike that. You have given, you thought, four or five depositions previously? A. I think four. Q. Two of the matters you've identified. One as Grunenthal versus A. It's pronounced Grunenthal.
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5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	It's it's been renamed Oticara Corporation. I've recently closed a significant funding round. We're doing clinical studies. And I serve on the board of another company, so THE REPORTER: Of another company? THE WITNESS: Yes. THE REPORTER: Try to keep your voice up for me. THE WITNESS: Sorry. BY MR. ZELLERS: Q. What is the name of the company that you serve on the board of? A. Texas EnteroSorbents. Q. Is it accurate that anywhere	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	an allegation of personal injuries? A. Yes. Q. Is this the first time that you have served as an expert in a product liability matter? A. Yes. Q. The depositions that you have given strike that. You have given, you thought, four or five depositions previously? A. I think four. Q. Two of the matters you've identified. One as Grunenthal versus A. It's pronounced Grunenthal. Q. Grunenthal versus Teva, and then a second matter of Ciprodex. What types of matters were those? A. Patent disputes.
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	It's it's been renamed Oticara Corporation. I've recently closed a significant funding round. We're doing clinical studies. And I serve on the board of another company, so THE REPORTER: Of another company? THE WITNESS: Yes. THE REPORTER: Try to keep your voice up for me. THE WITNESS: Sorry. BY MR. ZELLERS: Q. What is the name of the company that you serve on the board of? A. Texas EnteroSorbents.	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	an allegation of personal injuries? A. Yes. Q. Is this the first time that you have served as an expert in a product liability matter? A. Yes. Q. The depositions that you have given strike that. You have given, you thought, four or five depositions previously? A. I think four. Q. Two of the matters you've identified. One as Grunenthal versus A. It's pronounced Grunenthal. Q. Grunenthal versus Teva, and then a second matter of Ciprodex. What types of matters were those? A. Patent disputes.
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	Page 46		Page 48
1	stability.	1	A. No. I'll be getting deposed on
2	Q. Were you serving as an expert	2	January 23rd in another patent dispute in San
3	for the plaintiff or the defense in those	3	Francisco.
4	matters?	4	O. The name of that matter is what?
5	A. One was plaintiff. The other	5	A. The product is Niaspan. I'm
6	was defense.	6	working on behalf of the innovator company,
7	Q. Which one was plaintiff?	7	AbbVie. It is also a patent dispute.
8	A. So the Grunenthal case I was	8	Q. Any other testimony that you
9	the generic companies were suing Grunenthal,	9	have provided?
10	so I was working for the generic companies.	10	A. I don't think so.
11	I presume that's the plaintiffs.	11	Q. Any trial testimony?
12	In the Ciprodex matter, I was	12	A. Never been at trial.
13	Alcon Laboratories, I was working on their	13	Q. Any of the matters in which you
14	behalf. They were the innovator company.	14	previously provided testimony, have they
15	Q. What other matters have you	15	
16	provided deposition testimony in?	16	involved fragrance chemicals? A. No.
17	A. I was an expert on behalf of	17	Q. Have they involved any issues
18	=	18	relating to fragrance chemicals?
19	Novartis. The drug was Myfortic. That was	19	
20	more than five five years ago, though. Q. Okay. That testimony was where?	20	MS. O'DELL: Object to form.
		21	A. No. BY MR. ZELLERS:
21	A. The deposition was in in		
22	Canada in February.	22 23	Q. Are you serving presently as an
23	Q. Do you remember approximately		expert in any other matters?
24	when?	24	A. Yes.
	Page 47		Page 49
1	A. I remember it was, like, minus	1	Q. How many?
2	70 degrees outside, and I can't tell you what	2	A. Well, I just told you about the
3	year it was.	3	Niaspan matter. I'm also working on it's
4	Q. Can you estimate for us?	4	called IPR, inter partes review, which is
5	A. I think it was somewhere around	5	also a patent dispute, on behalf of Pfizer.
6	2011 or '12, perhaps.	6	The defendant is Intellipharmaceutics, and
7	Q. That also was a patent dispute?	7	the product is called Evzio. It's a
8	A. Patent dispute, yeah.	8	naloxone
9	Q. The fourth case that you've	9	Q. Any other expert matters?
10	rendered testimony in, was that a contract	10	MS. O'DELL: Excuse me, sir.
11	case?	11	Were you finished?
12	A. Yes.	12	THE WITNESS: No.
13	Q. When did you provide that	13	MS. O'DELL: Okay. You may
14	testimony?	14	finish your answer. I'm sorry.
15	A. 2010, I believe.	15	A. Yeah. The product is Evzio. I
16	Q. What was the matter name, if you	16	have been engaged on another matter. I have
17	remember?	17	not yet agreed to take it.
18	A. Michael Crowley v. PharmaForm	18	BY MR. ZELLERS:
19	and Akela.	19	Q. What matter is that?
20	Q. That was a personal contract	20	A. It's a pharmaceutical patent
21	dispute that you had?	21	dispute. I don't know the name of the
	A. Yeah.	22	product. I've just looked at the patent, and
22			
	Q. Any other deposition testimony you have provided?	23	I'm going to talk to the counsel that's engaged me to learn more to decide on whether

PageID: 200359
Michael Crowley, Ph.D.

1 or not I think they have a position that I 2 can support. 3 Q. All of the expert witness work 4 that you have done has related to patent 5 disputes. Correct? 6 A. That's correct. 7 Q. None of the expert witness work 8 that you have been engaged in other than this 9 marter relates to or involves fragrance 10 chemicals. Correct? 11 MS. O'D'ELL: Object to form. 12 A. I have not provided testimony 13 regarding fragrance chemicals before. 14 BY MR. ZELLERS: 15 Q. Have you ever been retained in a 16 case involving ashestos? 17 A. No. 18 Q. Have you ever been retained in a 19 case involving cosmetic products? 20 A. No. 21 Q. Your curriculum vitae accurately 22 describes your education background. Is that right? 24 A. Yes. Page 51 Q. You regrived a Master of Arts in 5 organic chemistry at Washington University 6 St. Louis in 1991. Is that right? 10 A. Yes. 11 Q. Any other former strike that. 12 Any additional formal education? 13 A. No. 14 Q. None of the companies that you 15 currently work for or serve on the board of directors manufacture and produce cosmetic produces. Sensient Technologies. Warmer-Jenkinson is now known as Sensient Technologies. Warmer-Jenkinson is now known as Sensient Technologies. Warmer-Jenkinson is now known as Sensient Technologies. Warmer-Jenkinson is where the flar world's largest manufacture of companies that you currently work for or serve on the board of directors manufacture and produce cosmetic produces. Warmer-Jenkinson is now known as Sensient Technologies. Warmer-Jenkinson is now known as Sensient Technologies. Warmer-Jenkinson is where the flar world's largest manufacture of colorants used for cosmetics. Warmer-Jenkinson is where the flar world sharpest manufacture of companies that you charmed, and why have a supposition and the world sharpest manufacture of companies that you companies that you control that the world sharpest manufacture of companies that you co		Page 50		Page 52
2 can support. 3 Q. All of the expert witness work 4 that you have done has related to patent 5 disputes. Correct? 6 A. That's correct. 7 Q. None of the expert witness work 8 that you have been engaged in other than this 9 matter relates to or involves fragrance 10 chemicals. Correct? 11 MS. O'DELL: Object norm. 12 A. I have not provided testimony 13 regarding fragrance chemicals before. 14 BY MR. Z'ELLERS: 15 Q. Have you ever been retained in a 16 case involving asbestors? 17 A. No. 18 Q. Your curriculum vitae accurately 20 describes your education background. Is that 21 right? 22 A. Yes. 4 Q. You majored in chemistry at the 23 University of Missouri. Correct? 3 A. Yes. 4 Q. You received a Master of Arts in 5 organic chemistry at Washington University 6 St. Louis in 1991. Is that right? 10 A. Yes. 11 Q. Any other former – strike that. 12 Any additional formal education? 13 A. No. 14 Q. None of the companies that you 15 currently work for or serve on the board of 16 directors manufacture and produce consense 17 A. No. 18 Q. Any one of the companies that you 19 pharmaceuties in 2003. Is that right? 20 Any other former – strike that. 21 Q. Any other former – strike that. 22 Any additional formal education? 23 A. No. 24 Q. You received a Master of Arts in 25 organic chemistry at Washington University 26 St. Louis in 1991. Is that right? 27 A. Yes. 28 Q. And a Ph.D. in molecular 29 pharmaceuties in 2003. Is that right? 29 Any other former – strike that. 20 Any other former – strike that. 21 Q. None of the companies that you 22 described for us? 23 A. No. 24 Q. You received a Master of Arts in 25 organic chemistry at Washington University 26 St. Louis in 1991. Is that right? 27 A. Yes. 3 Q. And a Ph.D. in molecular 3 pharmaceuties in 2003. Is that right? 4 A. No. 3 Q. You received my Master's 4 Q. You other former – strike that. 4 Q. You received my Master's 4 Q. You received my Master's 5 degree. 5 Q. That was your chemister with consensity and companies that you 20 Any D. The former – strike that. 21 A. After I re	1	or not I think they have a position that I	1	flavor division actually, multiple flavor
4 that you have done has related to patent disputes. Correct? 5 A. That's correct. 7 Q. None of the expert witness work that you have been engaged in other than this matter relates to or involves fragrance chemicals. Correct? 10 chemicals. Correct? 11 MS. O'DELL: Object to form. 12 A. I have not provided testimony regarding fragrance chemicals before. 13 regarding fragrance chemicals before. 14 BY MR. Z'ELLERS: 15 Q. Have you ever been retained in a case involving abestos? 16 case involving abestos? 17 A. No. 18 Q. Have you ever been retained in a case involving soemstic products? 20 A. No. 21 Q. You curriculum vitae accurately describes your education background. Is that right? 22 A. Yes. 24 A. Yes. 25 Q. You majored in chemistry at the University of Missouri. Correct? 26 Q. You received a Master of Arts in organic chemistry at Washington University St. Louis in 1991. Is that right? 27 A. Yes. 28 Q. And a Ph.D. in molecular pharmaceutics in 2003. Is that right? 29 A. No. 20 Any other involvement that you've just described for us? 21 A. Well, there's no fragrance in the facial mask. Warner-Jenkinson made fragrances. Investing a products. 29 In the facial mask warner-Jenkinson from January of 1992 to July of 1995. Is that right? 20 A. Yes. 21 Q. You received a Master of Arts in organic chemistry at Washington University St. Louis in 1991. Is that right? 22 A. Yes. 3 A. Yes. 4 Q. You received a Master of Arts in organic chemistry at Washington University of Missouri. Correct? 3 A. Yes. 4 Q. You received a Master of Arts in organic chemistry at Washington University of Missouri. Correct? 3 A. Yes. 4 Q. You received a Master of Arts in organic chemistry at Washington University of Missouri chemistry at the fragrance of Missouri and the well of the minerals present were unpleasant to pregnant moms. So I have experience working with fragrances and flavors. 2 Deage 51 A. Yes. 4 Q. You received a Master of Arts in organic chemistry at the facial mask washing organic chemistry at the facial mask washing organic chemist	2		2	
that you have done has related to patent disputes. Correct? A. That's correct. Q. None of the expert witness work that you have been engaged in other than this matter relates to or involves fragrance chemicals. Correct? MS. O'DELL: Object to form. MS. O'DELL: Object to form. A. I have not provided testimony regarding fragrance chemicals before. MS. O'DELL: Object to form. A. I have not provided testimony regarding fragrance chemicals before. MS. O'DELL: Object to form. A. I have not provided testimony regarding fragrance chemicals before. MS. O'DELL: Object to form. A. No. Q. Have you ever been retained in a case involving absotso? A. No. Q. Have you ever been retained in a case involving absotso? A. No. Q. Have you ever been retained in a case involving absotso? A. No. Q. Have you ever been retained in a case involving absotso? A. No. Q. You rurriculum vitae accurately describes your education background. Is that right? A. Yes. Page 51 Q. You majored in chemistry at the University of Missouri. Correct? A. Yes. Q. You majored in chemistry at the University of Missouri. Correct? A. Yes. Q. The company was Warner Page 51 A. Yes. Q. That was your first position after completing your education. Is that right? A. Yes. Q. That was your first position after completing your education. Is that right? A. No. Q. You majored in chemistry at the University of Missouri. Correct? A. Yes. Q. You worked at Warner-Jenkinson is now known as Senitr Technologies. Warner-Jenkinson is now known as Jenkinson. Warner-Jenkinson is now known as Senitr Technologies. Warner-Jenkinson is now known as Senitr Technologies. Warner-Jenkinson is now known as Senitr Technologies. Warner-Jenkinson is were the Misson is row where the colorants, that includes D&C colorants used colorants, that includes D&C colorants used the world's largest manufacturer of colorants, that includes D&C colorants used colorants, that includes D&C colorants used colorants, that includes D&C colorants used colorants, that includes	3	= =	3	Texas EnteroSorbents makes a
5 disputes. Correct? 6	4		4	clay product that is used in facial masks. I
7 Q. None of the expert witness work that you have been engaged in other than this matter relates to or involves fragrance chemicals. Correct? 1 MS. O'DELL: Object to form. 1 A. I have not provided testimony regarding fragrance chemicals before. 1 BY MR. ZELLERS: 1 Q. Have you ever been retained in a case involving asbestos? 1 A. No. 1 Q. Have you ever been retained in a case involving asbestos? 1 Q. Have you ever been retained in a case involving osmetic products? 1 Q. Your curriculum vitae accurately describes your education background. Is that right? 2 A. Yes. 2 Page 51 2 Q. You majored in chemistry at the University of Missouri. Correct? 3 A. Yes. 4 Q. You received a Master of Arts in organic chemistry at Washington University of St. Louis in 1991. Is that right? 4 A. Yes. 5 Q. And a Ph.D. in molecular pharmaceutical products. Is that right? 5 Q. Any other former – strike that. 6 A. Yes. 7 A. Yes. 8 Q. And a Ph.D. in molecular pharmaceutics in 2003. Is that right? 9 pharmaceutics in 2003. Is that right? 10 Q. None of the companies that you currently work for or serve on the board of directors manufacture and produce cosmetic products. Is that right? 1 Q. None of the companies that you currently work for or serve on the board of directors manufacture and produce cosmetic products. Is that right? 1 A. No. I worked at Warner-Jenkinson is now known as Sensient Technologies. Warner-Jenkinson is ow known as Sensient Technologies. Warner-Jenkinson is ow known as Sensient Technologies. Warner-Jenkinson is ow known as Sensient Technologies. Warner-Jenkinson is where the colorants, that includes D&C colorants used 20 for cosmetics. Warner-Jenkinson is where the 20 for cosmetics. Warner-J	5	disputes. Correct?	5	
## that you have been engaged in other than this matter relates to or involves fragrance 10 chemicals. Correct? 11 MS, O'DELL: Object to form. 12 A. I have not provided testimony 13 regarding fragrance chemicals before. 14 BY MR, ZELLERS: 15 Q. Have you ever been retained in a case involving asbestos? 16 case involving asbestos? 17 A. No. 18 Q. Have you ever been retained in a case involving cosmetic products? 19 case involving cosmetic products? 20 A. No. 21 Q. You curriculum vitae accurately describes your education background. Is that right? 22 describes your education background. Is that right? 23 A. Yes. 24 A. Yes. 25 Page 51 26 Q. You majored in chemistry at the University of Missouri. Correct? 27 A. Yes. 28 Q. And a Ph.D. in molecular pharmaceutics in 2003. Is that right? 29 A. Yes. 20 A. Yes. 21 Q. You received a Master of Arts in organic chemistry at Washington University St. Louis in 1991. Is that right? 29 A. Yes. 20 A. Yes. 30 A. Yes. 41 Q. You other former strike that. 42 A. Yes. 43 A. Yes. 44 Q. You other former strike that. 45 A. Yes. 46 Q. You other former strike that. 47 A. Yes. 48 Q. And a Ph.D. in molecular pharmaceutics in 2003. Is that right? 49 A. No. 50 Cannot of the companies that you currently work for or serve on the board of directors manufacture and produce cosmetic products. Is that right? 40 A. No. I worked at Warner-Jenkinson is one known as Sensient Technologies. Warner-Jenkinson is the world's largest manufacturer of colorants, that includes D&C colorants used 22 for cosmetics. Warner-Jenkinson is where the colorants used 23 for cosmetics. Warner-Jenkinson is where the colorants used 23 for cosmetics. Warner-Jenkinson is where the colorants used 24 flaw with cosmetic products. By MR. ZELLERS:	6	A. That's correct.	6	Q. Any other involvement that
matter relates to or involves fragrance chemicals. Correct? MS. O'DELL: Object to form. A. I have not provided testimony regarding fragrance chemicals before. BY MR. ZELLERS: C. Have you ever been retained in a case involving asbestos? A. No. M. O'Dell Have you ever been retained in a case involving osmetic products? A. No. May out ever been retained in a case involving cosmetic products? A. No. May out curriculum vitae accurately describes your education background. Is that right? A. Yes. Page 51 Q. You majored in chemistry at the University of Missouri. Correct? A. Yes. Q. You received a Master of Arts in organic chemistry at Washington University St. Louis in 1991. Is that right? A. Yes. Q. And a Ph.D. in molecular pharmaceutics in 2003. Is that right? A. Yes. Q. Any other former strike that. Any additional formal education? A. No. I worked at Warner-Jenkinson is directions manufacture and produce cosmetic. To products. Is that right? A. No. I worked at Warner-Jenkinson is the world's largest manufacturer of colorants, that includes D&C colorants used as for cosmetics. Warner-Jenkinson is where the	7	Q. None of the expert witness work	7	you've had with any type well, strike
10 Chemicals Correct? 11 MS. O'DELL: Object to form. 12 A. I have not provided testimony regarding fragrance chemicals before. 13 Q. Have you ever been retained in a case involving asbestos? 16 Q. Have you ever been retained in a case involving asbestos? 17 A. No. 18 Q. Have you ever been retained in a case involving cosmetic products? 18 Q. Have you ever been retained in a case involving cosmetic products? 19 Vitamin that we put ethyl vanillin in to add a sceni every content of the products of the products. Is that right? 10 A. Yes. 11 Q. Any other former — strike that. 12 Any additional formal education? 13 A. No. Worked at Warner-Jenkinson is of the world's largest manufacture and produce cosmetic products. Is that right? 14 A. No. I worked at Warner-Jenkinson is of the world's largest manufacture of colorants, that includes D&C colorants used 22 A. No O'DELL: Object to form. A. That wasn't the only experience 14 Ada with cosmetic products. 15 A. Will, there's no fragrances in the facial mask. Warner-Jenkinson is of the facial mask. Warner-Jenkinson is of the part of the	8	that you have been engaged in other than this	8	that.
11 MS. O'DELL: Object to form. 12 A. I have not provided testimony regarding fragrance chemicals before. 13 regarding fragrance chemicals before. 14 BY MR. ZELLERS: 15 Q. Have you ever been retained in a case involving asbestos? 16 A. No. 18 Q. Have you ever been retained in a case involving cosmetic products? 20 A. No. 21 Q. Your curriculum vitae accurately describes your education background. Is that right? 22 A. Yes. 24 A. Yes. 25 Page 51 26 Q. You majored in chemistry at the University of Missouri. Correct? 27 A. Yes. 28 Q. And a Ph.D. in molecular pharmaceutics in 2003. Is that right? 29 A. No. 20 Any other former — strike that. 21 A. Yes. 22 Q. Any other former — strike that. 23 A. Yes. 34 Q. Any other former — strike that. 45 Q. Any additional formal education? 46 Q. None of the companies that you currently work for or serve on the board of directors manufacture and produce cosmetic products. Is that right? 40 Q. None of the companies that you currently work for or serve on the board of directors manufacture and produce cosmetic products. Is that right? 41 Q. None of the companies that you currently work for or serve on the board of directors manufacture and produce cosmetic products. Is that right? 41 Q. None of the companies that you currently work for or serve on the board of directors manufacture and produce cosmetic products. Is that right? 42 A. No. I worked at Warner-Jenkinson is one known as Sensient Technologies. Warner-Jenkinson is where the Sensient Technologies. Warner-Jenkinson is one known as Sensient Technologies. Warner-Jenkinson is one known as Sensient Technologies. Warner-Jenkinson is where the Sensient Technologies. Warn	9	matter relates to or involves fragrance	9	Would you describe those
12 A. I have not provided testimony 13 regarding fragrance chemicals before. 14 BY MR. ZELLERS: 15 Q. Have you ever been retained in a 16 case involving asbestos? 17 A. No. 18 Q. Have you ever been retained in a 19 case involving cosmetic products? 19 case involving cosmetic products? 20 A. No. 21 Q. Your curriculum vitae accurately 22 describes your education background. Is that right? 23 right? 24 A. Yes. Page 51 1 Q. You majored in chemistry at the 2 University of Missouri. Correct? 3 A. Yes. 4 Q. You received a Master of Arts in organic chemistry at Washington University 5 St. Louis in 1991. Is that right? 4 A. Yes. Page 51 A. Yes. Page 51 Q. Ayou received a Master of Arts in organic chemistry at Washington University 5 St. Louis in 1991. Is that right? A. Yes. Q. And a Ph.D. in molecular pharmaceutics in 2003. Is that right? A. Yes. Q. Any other former strike that. A. Yes. A. No. A. Yes. C. The company was Warner-Jenkinson for from January of 1992 to July of 1995. Is that right? A. Yes. Q. Any additional formal education? A. No. A. Yes. Q. Your position at Warner-Jenkinson is one known as Currently work for or serve on the board of directors manufacture and produce cosmetic for products. Is that right? A. No. I worked at Warner-Jenkinson is now known as Sensient Technologies. Warner-Jenkinson is mow known as Colorants, that includes D&C colorants used Colorants and the work that you custed t	10	chemicals. Correct?	10	chemicals as fragrance chemicals?
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1 served as a technical consultant to the 2 creation of compositions. 3 Q. Is that a commercial product? 4 A. It is. 1 A. Yes. 2 Q. Tell us what that is. 3 A. So I was a co-owner of a company 4 called PharmaForm, and we worked with		Page 54		Page 56
a understand. The facial product that you had some involvement with, where was that at? A. So Texas EnteroSorbents sells a silicate calcium aluminum silicate that's used in facial masks. Q. Okay. You serve on the board of directors at Texas EnteroSorbents. Is that right? A. Yes. Q. Have you ever been an employee for that company? A. Yes. Q. Have you ever been a consultant for that company? A. Yes. Q. And what was your contribution for that company? A. A. investor wanted to create products facial clay products and other cosmetics with the clay, and I connected him with subcontracting companies that could help facilitate the development of those and Page 55 Page 55 Page 55 Page 55 Page 56 A. I toxicology? MS. O'DELL: Object to form. A. I took tox classes in grad school. BY MR. ZELLERS: Q. Other than that, you have no formal training. Correct? MS. O'DELL: Object to form. A. I that sounds like training to me. BY MR. ZELLERS: Q. Other than that, you have no formal training. Correct? MS. O'DELL: Object to form. A. That sounds like training to me. BY MR. ZELLERS: MS. O'DELL: Object to form. A. That sounds live it raining to me. BY MR. ZELLERS: MS. O'DELL: Object to form. A. That sounds live it raining to me. BY MR. ZELLERS: MS. O'DELL: Object to form. A. That sounds live it raining to me. BY MR. ZELLERS: MS. O'DELL: Object to form. A. That sounds live it raining to me. BY MR. ZELLERS: A. That sounds live it raining to me. BY MR. ZELLERS: A. That sounds live it raining to me. BY MR. ZELLERS: A. That sounds live it raining to me. BY MR. ZELLERS: A. That sounds live it raining to me. BY MR. ZELLERS: A. That sounds live it raining to me. BY MR. ZELLERS: A. That sounds live it raining to me. BY MR. ZELLERS: A. That sounds live it raining to me. BY MR. ZELLERS: A. To Ves. Q. Veu don't understand that question is appropriate. Q. Other than that, you had any other formal division in toxicology? Page 5: A. I don't think that question is appropriate. Q. Other than that, you had an	1	than and let me make sure that I	1	O. You have no formal training in
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12 Q. What other experience other than 12 some industrial safety and toxicology 13 what you've described for us have you had 13 training with our team, and we would engage		=		
what you've described for us have you had training with our team, and we would engage		*		
·		=		•
14 with cosmetic products? 14 them on each new drug substance prior to		· · · · · · · · · · · · · · · · · · ·		
		*		
15 A. I think that's most of it. 15 working on it.				
Q. You are not a medical 16 Q. You had a toxicologist come in		•		
17 toxicologist. Correct? 17 and provide you and others with additional				
18 A. That's correct. 18 training. Is that right?				
19 Q. You do not have a Ph.D. in 19 A. Yes.				
20 toxicology. Correct? 20 Q. You are not a regulatory expert.				
21 A. That's correct. 21 Is that right? 22 O. You do not hold yourself out as 22 A. No.				
Ç		-		
	22	- 41114		
24 A. Yes. 24 A. Well, actually I mean, how do	23	a toxicologist. Is that right?	23 24	A. Well, actually I mean, how do

	Page 58		Page 60
1		_	
1	you want to define "expert"? I write	1 2	A. No.
2	submissions to the FDA.		Q. For what company?
3	Q. Are you an expert in terms	3	A. Pain Therapeutics. They're a
4	well, strike that.	4	consulting client. They're not on my CV.
5	Do you consider yourself to be a	5	Q. What product were you testifying
6	regulatory expert?	6	to before the FDA on?
7	MS. O'DELL: Object to form.	7	A. It's a new form of oxycodone.
8	A. I'm more than competent in	8	Q. Was the company attempting to
9	regulations.	9	obtain regulatory approval?
10	BY MR. ZELLERS:	10	A. Yes.
11	Q. Okay.	11	Q. What hearing or type of
12	A. And my wife is a regulatory	12	proceeding was this before the FDA?
13	affairs and quality assurance	13	A. It was an FDA advisory committee
14	Q. You're being deposed here today.	14	meeting.
15	A. Yeah.	15	Q. You presented on behalf of your
16	Q. My question is: Do you consider	16	client at the FDA advisory committee meeting.
17	yourself to be a regulatory expert?	17	Is that right?
18	A. I consider myself	18	A. That's correct.
19	MS. O'DELL: Objection excuse	19	Q. Do you believe that qualifies
20	me.	20	you as a regulatory expert?
21	A to be very competent in	21	A. I have said this, I think, three
22	understanding regulations.	22	times now, Counselor. I am more than
23	MS. O'DELL: Let me just	23	competent in understanding regulations.
24	insert object to the form of the	24	Q. You are not an expert in the FDA
	Page 59		Page 61
1	question. Sorry. Excuse me. Give me	1	regulatory process for cosmetic products.
2	just a second to get that in there.		
	just a second to get that in there.		Correct?
2		2	Correct?
3	BY MR. ZELLERS:	3	MS. O'DELL: Object to form.
4	BY MR. ZELLERS: Q. Is that a "yes" or is that a	3 4	MS. O'DELL: Object to form. A. The FDA has very limited
4 5	BY MR. ZELLERS: Q. Is that a "yes" or is that a "no"?	3 4 5	MS. O'DELL: Object to form. A. The FDA has very limited cosmetic regulations.
4 5 6	BY MR. ZELLERS: Q. Is that a "yes" or is that a "no"? A. I think I answered your	3 4 5 6	MS. O'DELL: Object to form. A. The FDA has very limited cosmetic regulations. BY MR. ZELLERS:
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4 5 6 7 8	BY MR. ZELLERS: Q. Is that a "yes" or is that a "no"? A. I think I answered your question, Counselor. Q. Do you consider yourself to be a	3 4 5 6 7 8	MS. O'DELL: Object to form. A. The FDA has very limited cosmetic regulations. BY MR. ZELLERS: Q. I need you to answer my question as best you can.
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PageID: 200362 Michael Crowley, Ph.D.

Page 64
1 than the book that we marked as Deposition
2 Exhibit 5?
A. Flavors and Flavonoids was a
4 book that I recall looking at several years
5 ago. Generally, you know, you pick up the
6 phone, and you call International Flavors &
7 Fragrances or any number of fragrance houses.
8 Also there are some consultants that we would
9 engage. We developed oral compositions that
we would do e-tongue studies with to
understand taste profiles of new drugs and if
flavors or sweeteners were required to help
with palatability. I've done work with
pediatric compositions, and those are often
15 flavored.
Q. What experts or consultants
would you go to if you had questions about
18 fragrance chemicals?
A. There's a guy named David Tze.
I can't remember his company, but they're
21 well-known for, you know, using e-tongue and
flavoring assistance with compositions.
Q. Anyone else or any other
24 companies or groups?
Page 65
1 A. I mean, we contacted a number of
2 different flavor companies that have got
3 excellent technical service to help identify,
5 Checking technical service to help lacinity,
you know, flavors and products available.
4 you know, flavors and products available.
 you know, flavors and products available. Q. You have never written or
 you know, flavors and products available. Q. You have never written or published on the topic of fragrance
 you know, flavors and products available. Q. You have never written or published on the topic of fragrance chemicals. Is that right? A. That's correct. Q. You have never written or
you know, flavors and products available. Q. You have never written or published on the topic of fragrance chemicals. Is that right? A. That's correct. Q. You have never written or published on the topic of talcum powder.
you know, flavors and products available. Q. You have never written or published on the topic of fragrance chemicals. Is that right? A. That's correct. Q. You have never written or published on the topic of talcum powder. Correct?
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you know, flavors and products available. Q. You have never written or published on the topic of fragrance chemicals. Is that right? A. That's correct. Q. You have never written or published on the topic of talcum powder. Correct? A. No. Q. What writings or publications have do you have with respect to talcum
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you know, flavors and products available. Q. You have never written or published on the topic of fragrance chemicals. Is that right? A. That's correct. Q. You have never written or published on the topic of talcum powder. Correct? A. No. Q. What writings or publications have do you have with respect to talcum powder? A. Well, I've formulated products that are approved by the FDA that have talcum
you know, flavors and products available. Q. You have never written or published on the topic of fragrance chemicals. Is that right? A. That's correct. Q. You have never written or published on the topic of talcum powder. Correct? A. No. Q. What writings or publications have do you have with respect to talcum powder? A. Well, I've formulated products that are approved by the FDA that have talcum powder in it.
you know, flavors and products available. Q. You have never written or published on the topic of fragrance chemicals. Is that right? A. That's correct. Q. You have never written or published on the topic of talcum powder. Correct? A. No. Q. What writings or publications have do you have with respect to talcum powder? A. Well, I've formulated products that are approved by the FDA that have talcum powder in it. Q. What products?
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PageID: 200363
Michael Crowley, Ph.D.

	Page 66		Page 68
1	available.	1	before getting involved in this litigation.
2	Q. Who is the manufacturer of	2	Correct?
3	Thiola?	3	A. That's correct.
4	A. Mission Pharmacal in San	4	Q. You strike that.
5	Antonio.	5	Have you ever other than your
6	Q. When strike that.	6	involvement with Thiola and helping Mission
7	What was your involvement with	7	Pharmacal back in 1995 to January of 2000
8	that product?	8	with respect to this product Thiola, you've
9	A. I was the formulator.	9	had no communications with the FDA regarding
10	Q. When were you involved with the	10	talcum powder. Correct?
11	formulation of Thiola?	11	MS. O'DELL: Object to the form.
12	A. That would have been sometime	12	A. I don't believe I've ever had a
13	between 1995 and 2000.	13	communication with the FDA about talcum
14	Q. What company were you with at	14	powder. I mean, I've met with FDA on
15	the time?	15	multiple occasions, and I have worked on
16	A. Mission Pharmacal, the owner of	16	products that have talcum powder in it, but I
17	the product.	17	don't believe that I've certainly never
18	Q. My question to you, though, was:	18	had a discussion with the FDA about any of
19	Have you ever written or published on talcum	19	the issues with respect to talcum powder
20	powder or any issues relating to talcum	20	safety.
21	powder?	21	BY MR. ZELLERS:
22	A. I have I'm almost certain	22	Q. Or anything else other than
23	that some of my patents disclose the use of	23	perhaps in connection with Thiola back in
24	talcum powder, but I have not authored any	24	1995 to 2000?
	Page 67		Page 69
1	Page 67 papers specific to, you know, concerns with	1	Page 69 MS. O'DELL: Excuse me. Object
1 2		1 2	
	papers specific to, you know, concerns with		MS. O'DELL: Excuse me. Object to form. A. I don't believe so.
2	papers specific to, you know, concerns with asbestos and ovarian cancer and so forth, so Q. Or inflammation or irritation.	2	MS. O'DELL: Excuse me. Object to form.
2	papers specific to, you know, concerns with asbestos and ovarian cancer and so forth, so	2	MS. O'DELL: Excuse me. Object to form. A. I don't believe so.
2 3 4	papers specific to, you know, concerns with asbestos and ovarian cancer and so forth, so Q. Or inflammation or irritation.	2 3 4	MS. O'DELL: Excuse me. Object to form. A. I don't believe so. BY MR. ZELLERS:
2 3 4 5 6 7	papers specific to, you know, concerns with asbestos and ovarian cancer and so forth, so Q. Or inflammation or irritation. Correct? MS. O'DELL: Object to form. A. I haven't I haven't published	2 3 4 5	MS. O'DELL: Excuse me. Object to form. A. I don't believe so. BY MR. ZELLERS: Q. What product have you been involved in that contains talcum powder other than Thiola?
2 3 4 5 6	papers specific to, you know, concerns with asbestos and ovarian cancer and so forth, so Q. Or inflammation or irritation. Correct? MS. O'DELL: Object to form. A. I haven't I haven't published on that with respect to talcum powder, no.	2 3 4 5 6	MS. O'DELL: Excuse me. Object to form. A. I don't believe so. BY MR. ZELLERS: Q. What product have you been involved in that contains talcum powder other
2 3 4 5 6 7 8	papers specific to, you know, concerns with asbestos and ovarian cancer and so forth, so Q. Or inflammation or irritation. Correct? MS. O'DELL: Object to form. A. I haven't I haven't published on that with respect to talcum powder, no. BY MR. ZELLERS:	2 3 4 5 6 7	MS. O'DELL: Excuse me. Object to form. A. I don't believe so. BY MR. ZELLERS: Q. What product have you been involved in that contains talcum powder other than Thiola? A. Warner-Jenkinson made film coatings it's called SpectraBlend and
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PageID: 200364
Michael Crowley, Ph.D.

	Page 70		Page 72
1	that?	1	MR. ZELLERS: Mr. Court
2	A. I was providing technical	2	Reporter, you speak up as well if you
3	service, product development support for	3	need to take a break.
4	those two products.	4	BY MR. ZELLERS:
5	Q. Did those products ever become	5	Q. Are we good?
6	marketed?	6	A. Let's go another ten minutes and
7	A. Well, I don't know how to answer	7	take a break at 10:30. Does that sound
8	your question. So those would be used by	8	reasonable?
9	Warner-Jenkinson's customers in their	9	Q. Yes, although I've got a topic
10	products that were marketed. So, for	10	here that I want to finish.
11	example, we worked with, you know, McNeil on	11	A. Okay.
12	the Tylenol gel caps. SpectraBlend and	12	Q. So it may take me 15 minutes or
13	SpectraSpray were used as part of those	13	20 minutes.
14	products. We worked on Tylenol PM, which	14	A. That's okay.
15	are	15	Q. But let me just finish this
16	Q. You would sell to folks who	16	topic, and then
17	would use the	17	MS. WUNDERLICH: Can I just ask
18	A. Spectra	18	that you keep your voice up. I can't
19	Q Warner-Jenkinson product in	19	hear you very well down here,
20	their product?	20	especially with a lot of noise from
21	A. Yeah, that's correct.	21	outside.
22	Q. Any other talcum powder	22	MS. O'DELL: Are you referring
23	experience other than what you've told me?	23	to the witness or
24	A. I mean, it's been used in a	24	MS. WUNDERLICH: The witness,
	Page 71		Page 73
1	number I mean, it's been used as a glider	1	*****
_		_	yes.
2	for making tablets and filling capsules and	2	THE WITNESS: If you can't hear
2 3	so forth. I feel confident we used it at		THE WITNESS: If you can't hear me, just give me a cue, and I'll try to
		2	THE WITNESS: If you can't hear
3	so forth. I feel confident we used it at	2 3	THE WITNESS: If you can't hear me, just give me a cue, and I'll try to repeat. Are you able to hear me okay? Can you hear me okay?
3 4	so forth. I feel confident we used it at PharmaForm, too. So, I mean, it's it's something I've used at multiple points during	2 3 4	THE WITNESS: If you can't hear me, just give me a cue, and I'll try to repeat. Are you able to hear me okay?
3 4 5	so forth. I feel confident we used it at PharmaForm, too. So, I mean, it's it's something I've used at multiple points during my 20-plus years experience.	2 3 4 5 6 7	THE WITNESS: If you can't hear me, just give me a cue, and I'll try to repeat. Are you able to hear me okay? Can you hear me okay? BY MR. ZELLERS: Q. Were you under any time pressure
3 4 5 6 7 8	so forth. I feel confident we used it at PharmaForm, too. So, I mean, it's it's something I've used at multiple points during my 20-plus years experience. Q. Have you ever been involved in a	2 3 4 5 6	THE WITNESS: If you can't hear me, just give me a cue, and I'll try to repeat. Are you able to hear me okay? Can you hear me okay? BY MR. ZELLERS: Q. Were you under any time pressure in terms of analyzing the issues that you
3 4 5 6 7 8 9	so forth. I feel confident we used it at PharmaForm, too. So, I mean, it's it's something I've used at multiple points during my 20-plus years experience. Q. Have you ever been involved in a safety or risk assessment analysis of talcum	2 3 4 5 6 7 8	THE WITNESS: If you can't hear me, just give me a cue, and I'll try to repeat. Are you able to hear me okay? Can you hear me okay? BY MR. ZELLERS: Q. Were you under any time pressure in terms of analyzing the issues that you were asked to analyze in this case by
3 4 5 6 7 8 9	so forth. I feel confident we used it at PharmaForm, too. So, I mean, it's it's something I've used at multiple points during my 20-plus years experience. Q. Have you ever been involved in a safety or risk assessment analysis of talcum powder other than in this case?	2 3 4 5 6 7 8 9	THE WITNESS: If you can't hear me, just give me a cue, and I'll try to repeat. Are you able to hear me okay? Can you hear me okay? BY MR. ZELLERS: Q. Were you under any time pressure in terms of analyzing the issues that you were asked to analyze in this case by plaintiffs in developing your opinions and
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3 4 5 6 7 8 9 10 11 12 13 14 15	so forth. I feel confident we used it at PharmaForm, too. So, I mean, it's it's something I've used at multiple points during my 20-plus years experience. Q. Have you ever been involved in a safety or risk assessment analysis of talcum powder other than in this case? A. No. Q. Have you ever communicated with the FDA regarding any issues relating to ovarian cancer? A. No.	2 3 4 5 6 7 8 9 10 11 12 13 14 15	THE WITNESS: If you can't hear me, just give me a cue, and I'll try to repeat. Are you able to hear me okay? Can you hear me okay? BY MR. ZELLERS: Q. Were you under any time pressure in terms of analyzing the issues that you were asked to analyze in this case by plaintiffs in developing your opinions and preparing your report? MS. O'DELL: Object to form. A. I wish I would have had more time. There was an awful lot of stuff to review. There was approximately 175
3 4 5 6 7 8 9 10 11 12 13 14 15 16	so forth. I feel confident we used it at PharmaForm, too. So, I mean, it's it's something I've used at multiple points during my 20-plus years experience. Q. Have you ever been involved in a safety or risk assessment analysis of talcum powder other than in this case? A. No. Q. Have you ever communicated with the FDA regarding any issues relating to ovarian cancer? A. No. Q. Any communications with Health	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	THE WITNESS: If you can't hear me, just give me a cue, and I'll try to repeat. Are you able to hear me okay? Can you hear me okay? BY MR. ZELLERS: Q. Were you under any time pressure in terms of analyzing the issues that you were asked to analyze in this case by plaintiffs in developing your opinions and preparing your report? MS. O'DELL: Object to form. A. I wish I would have had more time. There was an awful lot of stuff to review. There was approximately 175 fragrance chemicals between the two of them,
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	so forth. I feel confident we used it at PharmaForm, too. So, I mean, it's it's something I've used at multiple points during my 20-plus years experience. Q. Have you ever been involved in a safety or risk assessment analysis of talcum powder other than in this case? A. No. Q. Have you ever communicated with the FDA regarding any issues relating to ovarian cancer? A. No. Q. Any communications with Health Canada regarding talcum powder?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	THE WITNESS: If you can't hear me, just give me a cue, and I'll try to repeat. Are you able to hear me okay? Can you hear me okay? BY MR. ZELLERS: Q. Were you under any time pressure in terms of analyzing the issues that you were asked to analyze in this case by plaintiffs in developing your opinions and preparing your report? MS. O'DELL: Object to form. A. I wish I would have had more time. There was an awful lot of stuff to review. There was approximately 175 fragrance chemicals between the two of them, and I tried to review as much of the
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	so forth. I feel confident we used it at PharmaForm, too. So, I mean, it's it's something I've used at multiple points during my 20-plus years experience. Q. Have you ever been involved in a safety or risk assessment analysis of talcum powder other than in this case? A. No. Q. Have you ever communicated with the FDA regarding any issues relating to ovarian cancer? A. No. Q. Any communications with Health Canada regarding talcum powder? A. No.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	THE WITNESS: If you can't hear me, just give me a cue, and I'll try to repeat. Are you able to hear me okay? Can you hear me okay? BY MR. ZELLERS: Q. Were you under any time pressure in terms of analyzing the issues that you were asked to analyze in this case by plaintiffs in developing your opinions and preparing your report? MS. O'DELL: Object to form. A. I wish I would have had more time. There was an awful lot of stuff to review. There was approximately 175 fragrance chemicals between the two of them,
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	so forth. I feel confident we used it at PharmaForm, too. So, I mean, it's it's something I've used at multiple points during my 20-plus years experience. Q. Have you ever been involved in a safety or risk assessment analysis of talcum powder other than in this case? A. No. Q. Have you ever communicated with the FDA regarding any issues relating to ovarian cancer? A. No. Q. Any communications with Health Canada regarding talcum powder? A. No. Q. Any communications with Health	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	THE WITNESS: If you can't hear me, just give me a cue, and I'll try to repeat. Are you able to hear me okay? Can you hear me okay? BY MR. ZELLERS: Q. Were you under any time pressure in terms of analyzing the issues that you were asked to analyze in this case by plaintiffs in developing your opinions and preparing your report? MS. O'DELL: Object to form. A. I wish I would have had more time. There was an awful lot of stuff to review. There was approximately 175 fragrance chemicals between the two of them, and I tried to review as much of the available information as I could find. BY MR. ZELLERS:
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	so forth. I feel confident we used it at PharmaForm, too. So, I mean, it's it's something I've used at multiple points during my 20-plus years experience. Q. Have you ever been involved in a safety or risk assessment analysis of talcum powder other than in this case? A. No. Q. Have you ever communicated with the FDA regarding any issues relating to ovarian cancer? A. No. Q. Any communications with Health Canada regarding talcum powder? A. No. Q. Any communications with Health Canada regarding ovarian cancer?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	THE WITNESS: If you can't hear me, just give me a cue, and I'll try to repeat. Are you able to hear me okay? Can you hear me okay? BY MR. ZELLERS: Q. Were you under any time pressure in terms of analyzing the issues that you were asked to analyze in this case by plaintiffs in developing your opinions and preparing your report? MS. O'DELL: Object to form. A. I wish I would have had more time. There was an awful lot of stuff to review. There was approximately 175 fragrance chemicals between the two of them, and I tried to review as much of the available information as I could find.
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	so forth. I feel confident we used it at PharmaForm, too. So, I mean, it's it's something I've used at multiple points during my 20-plus years experience. Q. Have you ever been involved in a safety or risk assessment analysis of talcum powder other than in this case? A. No. Q. Have you ever communicated with the FDA regarding any issues relating to ovarian cancer? A. No. Q. Any communications with Health Canada regarding talcum powder? A. No. Q. Any communications with Health Canada regarding ovarian cancer? A. No. Any communications with Health Canada regarding ovarian cancer? A. No.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	THE WITNESS: If you can't hear me, just give me a cue, and I'll try to repeat. Are you able to hear me okay? Can you hear me okay? BY MR. ZELLERS: Q. Were you under any time pressure in terms of analyzing the issues that you were asked to analyze in this case by plaintiffs in developing your opinions and preparing your report? MS. O'DELL: Object to form. A. I wish I would have had more time. There was an awful lot of stuff to review. There was approximately 175 fragrance chemicals between the two of them, and I tried to review as much of the available information as I could find. BY MR. ZELLERS:
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	so forth. I feel confident we used it at PharmaForm, too. So, I mean, it's it's something I've used at multiple points during my 20-plus years experience. Q. Have you ever been involved in a safety or risk assessment analysis of talcum powder other than in this case? A. No. Q. Have you ever communicated with the FDA regarding any issues relating to ovarian cancer? A. No. Q. Any communications with Health Canada regarding talcum powder? A. No. Q. Any communications with Health Canada regarding ovarian cancer? A. No. Q. I did not tell you this in the	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	THE WITNESS: If you can't hear me, just give me a cue, and I'll try to repeat. Are you able to hear me okay? Can you hear me okay? BY MR. ZELLERS: Q. Were you under any time pressure in terms of analyzing the issues that you were asked to analyze in this case by plaintiffs in developing your opinions and preparing your report? MS. O'DELL: Object to form. A. I wish I would have had more time. There was an awful lot of stuff to review. There was approximately 175 fragrance chemicals between the two of them, and I tried to review as much of the available information as I could find. BY MR. ZELLERS: Q. Do you have an estimate as to
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	so forth. I feel confident we used it at PharmaForm, too. So, I mean, it's it's something I've used at multiple points during my 20-plus years experience. Q. Have you ever been involved in a safety or risk assessment analysis of talcum powder other than in this case? A. No. Q. Have you ever communicated with the FDA regarding any issues relating to ovarian cancer? A. No. Q. Any communications with Health Canada regarding talcum powder? A. No. Q. Any communications with Health Canada regarding ovarian cancer? A. No. Any communications with Health Canada regarding ovarian cancer? A. No.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	THE WITNESS: If you can't hear me, just give me a cue, and I'll try to repeat. Are you able to hear me okay? Can you hear me okay? BY MR. ZELLERS: Q. Were you under any time pressure in terms of analyzing the issues that you were asked to analyze in this case by plaintiffs in developing your opinions and preparing your report? MS. O'DELL: Object to form. A. I wish I would have had more time. There was an awful lot of stuff to review. There was approximately 175 fragrance chemicals between the two of them, and I tried to review as much of the available information as I could find. BY MR. ZELLERS: Q. Do you have an estimate as to the amount total amount of time that

PageID: 200365
Michael Crowley, Ph.D.

	Page 74		Page 76
1	done.	1	BY MR. ZELLERS:
2	Q. Would you have spent more time	2	Q. Is that correct
3	if you had more time in terms of doing	3	A. Yes.
4	research and reviewing matters to prepare	4	Q Dr. Crowley?
5	your opinions in this matter?	5	A. Yeah.
6	A. Yeah. I mean, I I would have	6	Q. Any other articles, data,
7	liked a little bit more time, but I'm	7	documents, or materials that were provided to
8	comfortable with the opinions.	8	you by plaintiffs' counsel in connection with
9	Q. Did plaintiffs' counsel provide	9	your review of this matter?
10	you with any of the articles or data or	10	A. They may have emailed me some
11	documents that you referenced in your report?	11	information along the way, but to the best of
12	A. Yes. So I you know, I did	12	my recollection, that's the key pieces.
13	all the primary literature searching and	13	Q. If they emailed you any articles
14	searched the databases and so forth. The	14	or data or documents, would you have included
15	documents in the sources relied upon list	15	those in your sources considered list?
16	that that are from the case you know,	16	A. I think so. I mean, at one
17	I-M-E-R-Y the Imerys documents and the J&J	17	point I received an email that pointed to the
18	numbered documents, those were produced by	18	J&J website in which, you know, the quality
19	counsel. But everything else I found on my	19	and purity of the ingredients and the quality
20	own.	20	process at J&J was disclosed, but I don't
21	Q. If we look, then, at your	21	think that's in my sources considered list.
22	report, which includes Deposition Exhibits 9	22	Q. Anything else that strike
23	and 10, your reference list and your sources	23	that.
24	considered list, the only documents and	24	Any other source that you
	Page 75		Page 77
1	materials that were provided to you by	1	considered in preparing your report in this
2	plaintiffs' counsel were the Johnson &	2	matter that is not identified in either the
3	Johnson documents and the Imerys documents.	3	reference list, the body of the report, or
4	Correct?	4	your sources considered?
5	A. I believe so. Well, they gave	5	A. I think I may have looked at a
6	me the Thomas Dydek report. And I think at	6	toxicology book or two just to refresh myself
7	one point I was given the Canadian Ministry	7	on some of those things. These are textbooks
8	of Health or Health Ministry review of talcum	8	that I had from graduate school.
9	powder. And	9	I probably looked at you
10	Q. Anything else?	10	know, refreshed myself on a few items, but
11	A. I think that is everything.	11	I as I've said previously, I believe I
12	MS. O'DELL: Just for the	12	made every effort to disclose everything that
13	record, I would add the supplemental	13	I considered and relied upon.
14	answers to plaintiffs' second set of	14	Q. What toxicology books did you
15	interrogatories from the Ingram case	15	look at to refresh your recollection on those
16	were also litigation materials that	16	issues?
17	were provided to Dr. Crowley, and those	17	A. They're sitting on my bookshelf
18	are the list of fragrance chemicals.	18	at home. I'd have to go look. I can't even
19	THE REPORTER: I'm sorry. The	19	remember who the authors are right now.
20	list of what?	20 21	Q. Anything else that you reviewed or considered other than what's contained in
21 22	MS. O'DELL: Fragrance	22	your report, the reference list, and the
	chemicals. A. Yeah.	23	sources considered list?
1 72			DOMESTO COMPRESSOR HOLE
23 24	71. Tour.	24	MS. O'DELL: Object to the form.

	Page 78		Page 80
1	In addition to	1	A. No.
2	MR. ZELLERS: In addition to his	2	Q. Did you review Dr. Plunkett's
3	testimony.	3	deposition transcript, which was taken in
4	MS. O'DELL: His testimony and	4	December of 2018.
5	the appendices?	5	A. Yesterday they read
6	MR. ZELLERS: Yes. And he told	6	Ms. O'Dell
7	me early on that he considers the	7	MS. O'DELL: Don't
8	appendices to be part of his report.	8	THE WITNESS: That's privileged?
9	MS. O'DELL: Fair enough. I	9	MS. O'DELL: That's privileged.
10	just wanted to make that clear.	10	Don't disclose anything that we've
11	A. As I said, I've made every	11	discussed.
12	effort to, you know, make sure that the stuff	12	THE WITNESS: Okay.
13	I relied upon is in that list and/or cited.	13	BY MR. ZELLERS:
14	BY MR. ZELLERS:	14	Q. My question is: Have you
15	Q. Did you	15	reviewed Dr. Plunkett's deposition
16	A. I don't believe there's anything	16	transcript?
17	that I've missed.	17	A. No.
18	Q. Did you are you finished?	18	Q. Do you have a general
19	A. Yeah.	19	understanding of who Dr. Plunkett is?
20	Q. Did you review any expert	20	A. No.
21	reports from any other plaintiff expert in	21	Q. Do you have a general
22	the talc MDL?	22	understanding of her opinions in this matter?
23	A. After I submitted my report,	23	A. No.
24	they were circulated some of the other	24	Q. You were asked to make certain
	Page 79		Page 81
1	experts were circulated. I to say	1	assumptions in forming your opinions. Is
2	"review" would be an overstatement. I think	2	that right?
3	I looked at title pages to see what people	3	A. Yes.
4	opined on.	4	Q. On Page 11 of your report and
5	I think there was one report	5	feel free to refer to it if you need to
6	that I even kind of flipped through the whole	6	you were asked to assume that talcum powder
7	thing. Most of mine I did not read anything	7	can migrate from the perineum to the upper
8	other than the title page.	8	genital tract. Is that right?
9	Q. What expert report did you at	9	A. Yes.
10	least flip through?	10	Q. Your opinion that fragrance
11	A. I don't remember the name of the	11	chemicals contribute to the inflammatory
12	expert, but he was opining on detection	12	properties, toxicity, or potential
13	methods and testing methods.	13	carcinogenicity of the products is dependent
14	Q. Any other expert reports that	14	on plaintiffs' ability to prove that talcum
15	you reviewed relating to the talcum powder	15	powder can migrate from the vagina to the
16	issues?	16	upper genital tract. Correct?
17	A. No, I don't think so.	17	MS. O'DELL: Object to form.
18	Q. Did you review any expert	18	A. No, not necessarily. A number
19	reports other than Dr. Dydek's report from	19	of these fragrance chemicals are absorbed
20	any of the other talcum powder cases?	20	through skin, and several of them are
21	A. No.	21	permeation enhancers, which means that they
22	Q. Have you reviewed any deposition	22	will actually help promote other things from
23 24	or trial transcripts from any of the talcum powder cases?	23	being absorbed, metabolized, distributed, and
44	powder cases:	24	eliminated. So, regardless of whether that

PageID: 200367
Michael Crowley, Ph.D.

	Page 82		Page 84
1	assumption holds or not, it doesn't affect my	1	A. Just report the facts and rely
2	opinion.	2	upon the facts to form the basis of the
3	BY MR. ZELLERS:	3	opinion. There's no bias here, Counselor.
4	Q. Is it your testimony that a skin	4	Q. Was there any additional
5	irritant can produce or increase the risk for	5	information that you need to fully and fairly
6	ovarian cancer?	6	evaluate the questions that are set forth in
7	MS. O'DELL: Object to the form.	7	your report?
8	A. It's certainly possible, yeah.	8	A. I don't believe so. I did my
9	BY MR. ZELLERS:	9	best to examine the totality of the evidence.
10	Q. Explain how a skin irritant can	10	Q. Do you agree that if you did not
11	be associated with an increased risk of	11	have all the information, that your opinions
12	ovarian cancer?	12	could be biased?
13	A. An irritation produces an	13	MS. O'DELL: Object to form.
14	inflammatory response.	14	A. I don't believe that they are.
15	Q. It produces an inflammatory	15	BY MR. ZELLERS:
16	response in the area of the irritation. Is	16	Q. If you didn't have all the
17	that right?	17	relevant information, could your opinions be
18	A. Yes. But also, I mean, those	18	unfounded or incomplete?
19	inflammatory chemicals travel throughout the	19	MS. O'DELL: Object to
20	human body. So increased levels of	20	A. I
21	inflammation have been associated with a	21	MS. O'DELL: Excuse me. Object
22	higher risk of cancers.	22	to the form.
23	Q. Skin irritation, has it been	23	A. I'm very comfortable that I
24	associated with an increased risk of ovarian	24	examined and used generally accepted
	Page 83		Page 85
1	cancer?	1	practices to gather the information and then
2	A. Skin irritation?	2	form opinions upon which that evidence is
3	Q. Yes.	3	based.
4	A. I wasn't asked to opine	4	BY MR. ZELLERS:
5	Q. Inflammation of the skin, has	5	Q. I
6	that been associated with an increased risk	6	A. So there is no biased bias
7	of ovarian cancer?	7	associated with understanding facts.
8	MS. O'DELL: Object to form.	8	Q. Do you agree that scientists and
9	A. I wasn't asked to offer that	9	experts in litigation should be ethical and
10	opinion.	10	honest?
11	BY MR. ZELLERS:	11	A. Yes.
12	Q. And you're not offering those	12	Q. You reference sources from the
13	opinions. Correct?	13	EPA in your report. Is that right?
14	A. That's correct.	14	A. Yes.
15	Q. Any other assumptions that	15	Q. Is the EPA a reputable
16	you're making in forming your opinions here	16	organization?
17	today?	17	MS. O'DELL: Object to the form.
18	A. No.	18	It's a governmental organization, but
19	Q. In reaching your opinions, would	19	go on.
20	you agree it's important for you to address	20	A. I have no issue with the EPA. I
21	the questions asked and review the data in a	21	find them to be reputable.
22	fair and impartial way?	22	(Exhibit No. 11 marked)
23	A. Yes.	23	BY MR. ZELLERS:
24	Q. Why is that important?	24	Q. Deposition Exhibit 11

1 MS. O'DELL: Thank you. 2 BY MR. ZELLERS: 3 Q. — is from the FPA website, and 4 it sets forth the standards for scientific 5 integrity. Is that right? 6 MS. O'DELL: &Object to the 7 form. 8 A. That's what it looks like. 9 BY MR. ZELLERS: 10 Q. Do you see that the EPA explains 11 that scientific integrity is highly important 12 to insulate the scientific community from 13 plagiarism? 14 plagiarism? 15 MS. O'DELL: What page are you 16 reading from? 17 MR. ZELLERS: Page 2. 18 BY MR. ZELLERS: Page 2. 19 Q. Tm looking at the middle of the 10 page. "Scientific integrity is important 12 because it provides insulation from 13 plagiarism" — correct? 14 Q. It also provides insulation from 15 MS. O'DELL: Object to the form. 16 MS. O'DELL: Object to the form. 17 MR. ZELLERS: Page 2. 18 BY MR. ZELLERS: Page 2. 19 Q. Tm looking at the middle of the 10 page. "Scientific integrity is important 11 because it provides insulation from 12 plagiarism" — correct? 12 plagiarism — correct? 13 MS. O'DELL: Object to the form. 14 on the document. I may be — 15 MS. O'DELL: Dobject to the form. 15 MS. O'DELL: Seven. 16 MS. O'DELL: Brays missiong 17 it. 18 MR. ZELLERS: Cap. 19 Q. It also provides insulation from 20 plagiarism. — correct? 21 MS. O'DELL: I may be missing 22 it. 23 MR. ZELLERS: Okay. And, 24 actually, If arather the witness ask me 25 questions, but I'll try to help you 26 pagere? 27 MS. O'DELL: I may be missing 28 it. 29 MR. ZELLERS: Question, the mission provides insulation from 29 plagiarism. — correct? 21 MS. O'DELL: I may be missing 20 it. 21 MS. O'DELL: I may be missing 21 it. 22 MS. O'DELL: I may be missing 23 it. 34 MS. O'DELE: What it says. 35 MS. O'DELE: What it says. 36 MS. O'DELE with an it and the provides insulation from blas, falsification, and plagiarism. 37 O'Devent asking me, you answer is you. 38 MS. O'DELL: What page are you reading from thim state that scientific integrity is important because it provides insulation from blas, falsification, and plagiarism. 39 O'Devent asking me, you answer is you. 30 Q. A		Page 86		Page 88
2 BY MR. ZELLERS: 3 Q is from the FPA website, and 4 it sets forth the standards for scientific 5 integrity. Is that right? 6 MS. O'DELL: &Object to the 7 form. 8 A. That's what it looks like. 9 BY MR. ZELLERS: 10 Q. Do you see that the EPA explains that scientific integrity is highly important 12 to insulate the scientific community from 13 things such as bias, falsification, and plagiarism? 15 MS. O'DELL: What page are you reading from? 16 reading from? 17 MR. ZELLERS: Page 2. 18 BY MR. ZELLERS: 19 Q. I'm looking at the middle of the page. "Scientific integrity is important because it provides insulation from 21 plagiarism? - correct? 23 A. That's what it says, yeah. 24 Q. It also provides insulation from 22 plagiarism? - correct? 23 A. That's what it says, yeah. 24 Q. It also provides insulation from 25 MR. ZELLERS: Nac. 25 MR. ZELLERS: Sure. 26 MS. O'DELL: I may be with the page from their website that well mark as Exhibit 12 the here. 26 MS. O'DELL: I may be missing it. 27 MR. ZELLERS: Nac. 28 MY MR. ZELLERS: Nac. 39 MR. ZELLERS: Nac. 40 MS. O'DELL: I may be missing it. 41 MR. ZELLERS: Nac. 42 MR. ZELLERS: Nac. 43 MR. ZELLERS: Nac. 44 MR. ZELLERS: Nac. 45 MR. ZELLERS: Nac. 46 MS. O'DELL: I may be missing it. 47 MR. ZELLERS: Nac. 48 MR. ZELLERS: Nac. 49 MR. ZELLERS: Nac. 40 MR. ZELLERS: Nac. 41 MR. ZELLERS: Nac. 42 MR. ZELLERS: Nac. 43 MR. ZELLERS: Nac. 44 MR. ZELLERS: Nac. 45 MR. ZELLERS: Nac. 46 MR. ZELLERS: Nac. 47 MR. ZELLERS: Nac. 48 MR. ZELLERS: Nac. 49 MR. ZELLERS: Nac. 40 MR. ZELLERS: Nac. 41 MR. ZELLERS: Nac. 42 MR. ZELLERS: Nac. 43 MR. ZELLERS: Nac. 44 MR. ZELLERS: Nac. 45 MR. ZELLERS: Nac. 46 MR. ZELLERS: Nac. 47 MR. ZELLERS: Nac. 48 MR. ZELLERS: Nac. 49 MR. ZELLERS: Nac. 40 MR. ZELLERS: Nac. 40 MR. ZELLERS: Nac. 41 MR. ZELLERS: Nac. 42 MR. ZELLERS: Nac. 43 MR. ZELLERS: Nac. 44 MR. ZELLERS: Nac. 45 MR. ZELLERS: Nac. 46 MR. ZELLERS: Nac. 47 MR. ZELLERS: Nac. 48 MR. ZELLERS: Nac. 49 MR. ZELLERS: Nac. 40 MR. ZELLERS: Nac. 41 MR. ZELLERS: Nac. 41 MR. ZELLERS: Nac. 42 MR. ZELLERS: Nac. 43 MR. Z	_			
4 it sets forth the standards for scientific integrity. Is that right? 6 MS. O'DELL: & Object to the form. 7 form. 8 A. That's what it looks like. 9 BY MR. ZELLERS: 10 Q. Do you see that the EPA explains that scientific integrity is highly important to insulate the scientific community from things such as bias, falsification, and plagiarism in your review analysis and preparation of your report in this matter. Correct? 13 think you're asking me, you know, if I maintain scientific integrity is highly important to insulate the scientific community from things such as bias, falsification, and plagiarism? 14 plagiarism? 15 MS. O'DELL: What page are you reading from? 16 mS. O'DELL: What page are you reading from? 17 MR. ZELLERS: Page 2. 18 BY MR. ZELLERS: Page 2. 19 Q. I'm looking at the middle of the page. "Scientific integrity is important because it provides insulation from beause it provides insulation from plagiarism." - correct? 12 plagiarism. Page 87 1 research misconduct. Is that right? 2 MS. O'DELL: Object to the form. 2 MS. O'DELL: Stare. 6 MS. O'DELL: Stare. 6 MS. O'DELL: Stare. 7 MR. ZELLERS: Nay. And, actually, I'd rather the witness ask me of questions, but I'll try to help you life important?" 19 MR. ZELLERS: Nay. And, actually, I'd rather the witness ask me of questions, but I'll try to help you agree? 11 The second bullet point says. 16 "Scientific integrity, along with federal policies on research misconduct" - it gets to the form, misstates the document. I may be missing it the point where scientists such as yourself can be held accountable. Do you agree? 11 MS. O'DELL: Excuse me. Object to the form, misstates the document. I may be missing it that right? I with the o'ffice of Research Integrity? 16 MS. O'DELL: Baye missing it the provides insulation from bias, falsification, and plagiarism in your review analysis and preparation of your report in this matter. Correct? 18 MS. O'DELL: Baye and the EPA explains that setter the ferm. 19 Q. And those standards state that scientific integrity i				
a it sets forth the standards for scientific integrity. Is that right? MS. O'D'ELL: &Object to the form. BY MR. ZELLERS: O. Do you see that the EPA explains this scientific integrity is highly important to insulate the scientific integrity is highly important to insulate the scientific integrity is highly important to insulate the scientific integrity is mightly important pages. "Scientific integrity is important because it provides insulation from page, "Scientific integrity is important because it provides insulation from page it. MS. O'D'ELL: Object to the form. Page 87 research misconduct. Is that right? MS. O'D'ELL: Object to the form. Tesearch misconduct. Is that right? MS. O'D'ELL: Object to the form. A. I think you're asking me, you know, if I maintain scientific integrity. Is that right? If maintain scientific integrity integrity. Correct? A. Yeah. Q. And those standards of scientific integrity is important because it provides insulation from bias, falsification, and plagiarism. Correct? A. That's what it says. You agree with that? Q. It also provides insulation from Page 87 research misconduct. Is that right? MS. O'D'ELL: Dipect to the form. A. Hat's what it says. Yo				
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Page 90 Page 92 1 It seems like a reasonable 1 different. I'm not talking about 2 definition of plagiarism. 2 paraphrasing. I'm not talking about where 3 3 you do cite to a source. Are you aware that several paragraphs from your report were copied and 4 4 It would be wrong for you as an 5 pasted from various websites and articles? 5 expert witness in this case to lift, word for 6 A. Yes. 6 word, text from other articles and other 7 7 Q. Can you tell us where in your sources and include those in your report. report you copied and pasted statements from 8 8 Correct? 9 other websites and articles? 9 A. I did not --10 10 A. I mean, a good majority of the MS. O'DELL: Excuse me. Object 11 report was drawn from those sources. 11 to the form. 12 Q. It would be wrong for you to 12 A. No. I disagree. simply lift or copy and paste the text from 13 13 BY MR. ZELLERS: other sources and include it in your report 14 14 Q. It would be appropriate for --15 without giving attribution to those sources. 15 MS. O'DELL: Excuse me, sir. 16 Correct? 16 MR. ZELLERS: Sure. 17 MS. O'DELL: Object to form. 17 MS. O'DELL: If you're not A. I did every -- I made every 18 finished, you may finish your answer. 18 19 effort to cite where I drew information from. 19 A. I wasn't finished. I had to And, Counselor, if you're going to suggest 20 20 gather information on these chemicals, and I that copying and pasting information into 21 21 relied upon several sources to do so. The that report, specifically in the appendices, appendices were created by examining those 22 22 23 represents plagiarism, that was a collation 23 sources, collating that information, which of the information from which I formed the included copying and pasting it in the 24 24 Page 91 Page 93 1 basis of that report and the opinion. 1 report. So, no, it's absolutely not 2 BY MR. ZELLERS: 2 inappropriate to do so. Q. Would it be wrong, in the body 3 BY MR. ZELLERS: 3 of your report, not speaking of the 4 Q. I am not speaking of the 4 5 appendices, for you to copy and paste appendices. I'm speaking of the body of your 5 report where you set forth your opinions. 6 statements from other authors and websites 6 7 and materials without giving attribution to 7 It would be wrong in the body of 8 8 your report to lift and copy and paste text those sources? 9 9 MS. O'DELL: Object to the form. from other articles or from other sources 10 10 A. I don't think so. without giving attribution to those sources. 11 BY MR. ZELLERS: 11 Correct? MS. O'DELL: Object to the form. 12 Q. You think it would be 12 13 permissible to take quotes from other 13 A. No, I don't believe so. I don't articles, websites, and sources, include them believe I did that. I believe that in some 14 14 15 in the body of your report, and pretend that 15 of the tables I recite some of the items from 16 they are your words? 16 the appendices word for word. So --17 MS. O'DELL: Object to the form. 17 MS. O'DELL: Excuse me. Let 18 A. I don't believe I did that. I 18 him -- you may finish. 19 believe that what I did was either paraphrase 19 A. Yeah. So let's be very clear about this, Counselor. If you're going to 20 or cite to a source. And if I have missed a 20 21 citation, then, you know, it's easily 21 suggest that my report is anything less than ethical and that there's plagiarism or this 22 22 corrected. or that, I was relying upon that information 23 BY MR. ZELLERS: 23 24 Q. My question is a little 24 to draw, you know, the conclusions and the

Page 94 Page 96 1 opinions that I drew. 1 entire paragraph -- second paragraph under 2 BY MR. ZELLERS: 2 Section 4.2 on Page 18 -- is copied and 3 3 pasted word for word from an article written Q. So I understand your testimony, 4 you do not believe that it is wrong for you 4 by Anne Steinemann and published in 5 to take, word for word, information --5 Environmental Impact Assessment Review, 2008? A. I may have reviewed that and 6 Why don't you show me where that 6 7 7 gotten it from there and, you know, didn't do is. 8 MS. O'DELL: Excuse me. Let him 8 an adequate job of paraphrasing. May I see 9 9 the article, please? finish. 10 BY MR. ZELLERS: 10 Q. Sure. Because it's your 11 Let me finish my question. 11 testimony it would be okay if you paraphrased 12 MS. O'DELL: And then let me 12 statements from Ms. Steinemann in her paper. 13 object. So you can finish your --13 Is that right? BY MR. ZELLERS: 14 14 MS. O'DELL: Object to the form. 15 Would it be wrong for you, in 15 A. Yes. 16 the body of your report, to go to other 16 (Exhibit No. 13 marked) 17 articles or other sources and lift that 17 BY MR. ZELLERS: 18 information word for word and include it in Q. I'm going to hand you what we'll 18 19 your report without attribution to other 19 mark as Deposition Exhibit 13. 20 sources? Would that be wrong? 2.0 A. Okay. 21 MS. O'DELL: Object to the form, 21 Which is the Steinemann article. 22 asked and answered, misstates his prior 22 Your first sentence of this paragraph starts 23 testimony. You may answer the question 23 with, "Regulation of consumer products 24 as you understand it. largely falls under the Consumer Products 24 Page 95 Page 97 1 A. Yeah. I don't believe I did it. 1 Safety Act." 2 If I did, it was an oversight. Okay? And 2 Is that right? 3 3 I'll state again --Yes. MS. O'DELL: There's no --4 Go to Page 2 of the Steinemann 4 5 5 BY MR. ZELLERS: article underneath the regulatory analyses, 6 6 the third paragraph, second sentence, Q. Turn to --7 7 "Regulation of consumer products largely MS. O'DELL: There's no question 8 8 falls under the Consumer Products Safety pending. 9 9 BY MR. ZELLERS: Act," and I eliminated the statement in Q. Turn to Page 18 of your report. 10 10 parens. 11 Do you see Page 18? 11 That's word for word. Correct? 12 12 No, it's not. A. Yes. A. 13 Paragraph 2. Are those your 13 What -- other than the omitted 14 paren which states "other than food, drugs words? And I'm sorry. So it's clear, 14 15 cosmetics, tobacco, and pesticides" that --15 Paragraph 2 underneath Section 4.2, fragrance 16 Yeah, those are the same words, 16 chemical regulatory review. 17 17 that's correct. Without the parens, that's MS. O'DELL: Just so I'm clear, 18 18 the paragraph beginning "Regulation of right. 19 Q. Then we go to the second 19 consumer products"? 20 MR. ZELLERS: Yes. 20 sentence, and go down to the next paragraph 21 in Dr. Steinemann's report, the one that 21 BY MR. ZELLERS: 22 starts "notably." Do you see that? 22 Q. Are those your words? 23 23 Yes. A. I believe I typed them, yeah. A. 24 Are you aware that nearly that 24 Then it continues, "The CPSA Q.

Page 98 Page 100 1 does not require disclosure of all 1 Q. Go to Page 27 of your report. 2 ingredients in products," and it continues 2 Do you see the last full paragraph? 3 for several more sentences. 3 Yes. A. 4 Those sentences appear, word for 4 Are you aware that the last full 5 word, in your second paragraph on Page 18. 5 paragraph on Page 27 of your report, all but the first sentence was copied and pasted from б Correct? 6 7 a Wikipedia entry on mucus membrane? 7 MS. O'DELL: Object to the form. A. I believe I paraphrased it. I 8 MS. O'DELL: Object to form. 8 don't think it's word for word. 9 9 A. I believe I paraphrased it. 10 10 BY MR. ZELLERS: BY MR. ZELLERS: 11 Q. Well, I don't want to take the 11 Q. Well, I will let the record 12 time to go through and do a word-for-word 12 speak for itself in terms of doing the 13 analysis. 13 word-by-word comparison. I don't believe that you did, but we'll let the record, 14 Go to, then, if you will, Page 3 14 15 of the Steinemann article, and the first 15 again, speak for itself. 16 sentence on Page 3, "Ingredients can also be 16 Look at Page -- strike that. exempt from disclosure." (Exhibit No. 14 marked) 17 17 18 You state that sentence as the 18 BY MR. ZELLERS: 19 next sentence in your report. Right? 19 Q. Look at Exhibit 14, which is the 20 20 Wikipedia entry or statement on mucous 21 MS. O'DELL: Object to the form. 21 membrane. MS. O'DELL: Is this 14? 22 BY MR. ZELLERS: 22 23 Q. Then if we go to the next 23 MR. ZELLERS: Yes, 14. paragraph, several sentences in where it 24 24 Page 99 Page 101 says, "Under the FFDCA, fragrance ingredients 1 1 BY MR. ZELLERS: 2 that qualify," that sentence appears verbatim 2 Q. You are -- and specifically you 3 in your report. Is that right? 3 have lifted verbatim in the second to last 4 MS. O'DELL: Object to the form. 4 paragraph or the last full paragraph on 5 A. Where is this? 5 Page 27 the Wikipedia statement as to what a б 6 mucous membrane or mucosa is. And I'm BY MR. ZELLERS: 7 Q. So you go to the second 7 looking at the very first page, the paragraph on Page 3 of the Steinemann 8 8 introductory paragraph of Exhibit 14. Is 9 article. The sentence starts -- and this is 9 that right? 10 about three or four sentences in -- "Under 10 MS. O'DELL: Object to form. 11 the FFDCA, fragrance ingredients that qualify 11 I believe I paraphrased it, as 12 as trade secrets," that is your last sentence 12 I've said. 13 in Paragraph 2 of your report. Is that 13 BY MR. ZELLERS: 14 right? 14 Q. Well, you start with -- and I'm 15 A. Yeah, that's consistent. 15 looking at the second sentence -- "A mucous 16 MS. O'DELL: Object to the form. 16 membrane or mucosa is a membrane," and then 17 you end the paragraph, four or five sentences BY MR. ZELLERS: 17 18 Q. All right. Have you read the 18 later, by stating, "prevent bodily tissues 19 Consumer Product Safety Act, the Federal 19 from becoming dehydrated." 20 Hazardous Substances Act, or the Toxic 20 At least those words are the same words. Correct? 21 Substances Control Act? 21 22 A. I did go pull them up on the 22 A. I will take --23 internet and took a look at them. I didn't 23 MS. O'DELL: Object to the form. 24 read them in total. 24 A. I will have to take a look at

PageID: 200372 Michael Crowley, Ph.D.

	Page 102		Page 104
1	it.	1	you have Exhibit 15 in front of you?
2	BY MR. ZELLERS:	2	A. Yes.
3	Q. You are aware that Wikipedia is	3	Q. Do you have your report in front
4	not a peer-reviewed source. Correct?	4	of you, Page 32?
5	A. I believe that it's reviewed by	5	A. Yes.
6	anyone who wants to, yeah.	6	Q. Do you see the last paragraph of
7		7	
		8	Deposition Exhibit 15, the website for Interactive Learning Paradigms, Incorporated,
8	entry?	9	
9	A. I believe so, yeah.	10	that begins, "Traditionally, sensitization
10	Q. Go to Page 32 of your report.		has been determined"?
11	I'm looking at the second to last full	11	Do you see that?
12	paragraph that starts with "traditionally."	12	A. Yes.
13	Do you see where I'm at? This is in Section	13	Q. Would you agree that that
14	4.5.	14	paragraph, excluding the very last sentence
15	A. Yeah.	15	that is the citation to the EPA, is exactly
16	Q. It would be the second to last	16	the same paragraph as appears in your report
17	full paragraph on Page 32 of your report.	17	on Page 32?
18	Are you aware that that	18	MS. O'DELL: Object to the form.
19	paragraph is taken directly from a website	19	A. Yeah, it looks like it.
20	called Interactive Learning Paradigms,	20	MR. ZELLERS: Let's take a
21	Incorporated?	21	break. Thank you.
22	A. No.	22	THE VIDEOGRAPHER: Going off the
23	MS. O'DELL: And excuse me.	23	record, the time is 10:50 a.m.
24	Just so you're talking about the	24	(Recess from 10:50 a.m. to
	Page 103		
1	sentence the paragraph beginning	1	11:07 a.m.)
2	"traditionally"?	2	THE VIDEOGRAPHER: This marks
3	MR. ZELLERS: Yes.	3	the beginning of Disc 2. Back on the
4	BY MR. ZELLERS:	4	record, the time is 11:07 a.m.
5	Q. You are unaware of that, Doctor?	5	BY MR. ZELLERS:
6	A. I don't think so.	6	
7	Q. Well, it would be wrong for you	7	Q. Dr. Crowley, your first opinion is that the fragrance chemicals in baby
8	to lift statements from other articles or	8	powder and Shower to Shower are not in
9	other authors or Wikipedia and include them	9	•
	outer authors of wikipedia and include them	ا ع	compliance with governmental and industry
1.0	in your report word for word without	1 0	
10	in your report word for word without	10	standards. Correct?
11	attribution. Correct?	11	standards. Correct? A. Yes.
11 12	attribution. Correct? MS. O'DELL: Object to the form.	11 12	standards. Correct? A. Yes. Q. Your second opinion is that the
11 12 13	attribution. Correct? MS. O'DELL: Object to the form. A. You know, I tried to paraphrase	11 12 13	standards. Correct? A. Yes. Q. Your second opinion is that the fragrance chemicals in these talcum powder
11 12 13 14	attribution. Correct? MS. O'DELL: Object to the form. A. You know, I tried to paraphrase where appropriate. If I missed missed	11 12 13 14	standards. Correct? A. Yes. Q. Your second opinion is that the fragrance chemicals in these talcum powder products contribute to the inflammatory
11 12 13 14 15	attribution. Correct? MS. O'DELL: Object to the form. A. You know, I tried to paraphrase where appropriate. If I missed missed something and didn't cite it, it was an	11 12 13 14 15	standards. Correct? A. Yes. Q. Your second opinion is that the fragrance chemicals in these talcum powder products contribute to the inflammatory properties, toxicity, and potential
11 12 13 14 15 16	attribution. Correct? MS. O'DELL: Object to the form. A. You know, I tried to paraphrase where appropriate. If I missed missed something and didn't cite it, it was an oversight.	11 12 13 14 15 16	standards. Correct? A. Yes. Q. Your second opinion is that the fragrance chemicals in these talcum powder products contribute to the inflammatory properties, toxicity, and potential carcinogenicity of these products. Is that
11 12 13 14 15 16 17	attribution. Correct? MS. O'DELL: Object to the form. A. You know, I tried to paraphrase where appropriate. If I missed missed something and didn't cite it, it was an oversight. BY MR. ZELLERS:	11 12 13 14 15 16 17	standards. Correct? A. Yes. Q. Your second opinion is that the fragrance chemicals in these talcum powder products contribute to the inflammatory properties, toxicity, and potential carcinogenicity of these products. Is that right?
11 12 13 14 15 16 17 18	attribution. Correct? MS. O'DELL: Object to the form. A. You know, I tried to paraphrase where appropriate. If I missed missed something and didn't cite it, it was an oversight. BY MR. ZELLERS: Q. Take a look at Page 15 strike	11 12 13 14 15 16 17 18	standards. Correct? A. Yes. Q. Your second opinion is that the fragrance chemicals in these talcum powder products contribute to the inflammatory properties, toxicity, and potential carcinogenicity of these products. Is that right? A. Yes.
11 12 13 14 15 16 17 18	attribution. Correct? MS. O'DELL: Object to the form. A. You know, I tried to paraphrase where appropriate. If I missed missed something and didn't cite it, it was an oversight. BY MR. ZELLERS: Q. Take a look at Page 15 strike that.	11 12 13 14 15 16 17 18	A. Yes. Q. Your second opinion is that the fragrance chemicals in these talcum powder products contribute to the inflammatory properties, toxicity, and potential carcinogenicity of these products. Is that right? A. Yes. Q. Is it your opinion that the
11 12 13 14 15 16 17 18 19 20	attribution. Correct? MS. O'DELL: Object to the form. A. You know, I tried to paraphrase where appropriate. If I missed missed something and didn't cite it, it was an oversight. BY MR. ZELLERS: Q. Take a look at Page 15 strike that. Take a look, if you will, at	11 12 13 14 15 16 17 18 19 20	A. Yes. Q. Your second opinion is that the fragrance chemicals in these talcum powder products contribute to the inflammatory properties, toxicity, and potential carcinogenicity of these products. Is that right? A. Yes. Q. Is it your opinion that the fragrance chemicals alone can cause cancers?
11 12 13 14 15 16 17 18 19 20 21	attribution. Correct? MS. O'DELL: Object to the form. A. You know, I tried to paraphrase where appropriate. If I missed missed something and didn't cite it, it was an oversight. BY MR. ZELLERS: Q. Take a look at Page 15 strike that. Take a look, if you will, at Exhibit 15.	11 12 13 14 15 16 17 18 19 20 21	A. Yes. Q. Your second opinion is that the fragrance chemicals in these talcum powder products contribute to the inflammatory properties, toxicity, and potential carcinogenicity of these products. Is that right? A. Yes. Q. Is it your opinion that the fragrance chemicals alone can cause cancers? MS. O'DELL: Objection; form.
11 12 13 14 15 16 17 18 19 20 21 22	attribution. Correct? MS. O'DELL: Object to the form. A. You know, I tried to paraphrase where appropriate. If I missed missed something and didn't cite it, it was an oversight. BY MR. ZELLERS: Q. Take a look at Page 15 strike that. Take a look, if you will, at Exhibit 15. (Exhibit No. 15 marked)	11 12 13 14 15 16 17 18 19 20 21 22	standards. Correct? A. Yes. Q. Your second opinion is that the fragrance chemicals in these talcum powder products contribute to the inflammatory properties, toxicity, and potential carcinogenicity of these products. Is that right? A. Yes. Q. Is it your opinion that the fragrance chemicals alone can cause cancers? MS. O'DELL: Objection; form. A. I was not asked to make that
11 12 13 14 15 16 17 18 19 20 21 22 23	attribution. Correct? MS. O'DELL: Object to the form. A. You know, I tried to paraphrase where appropriate. If I missed missed something and didn't cite it, it was an oversight. BY MR. ZELLERS: Q. Take a look at Page 15 strike that. Take a look, if you will, at Exhibit 15. (Exhibit No. 15 marked) BY MR. ZELLERS:	11 12 13 14 15 16 17 18 19 20 21 22 23	standards. Correct? A. Yes. Q. Your second opinion is that the fragrance chemicals in these talcum powder products contribute to the inflammatory properties, toxicity, and potential carcinogenicity of these products. Is that right? A. Yes. Q. Is it your opinion that the fragrance chemicals alone can cause cancers? MS. O'DELL: Objection; form.
11 12 13 14 15 16 17 18 19 20 21 22	attribution. Correct? MS. O'DELL: Object to the form. A. You know, I tried to paraphrase where appropriate. If I missed missed something and didn't cite it, it was an oversight. BY MR. ZELLERS: Q. Take a look at Page 15 strike that. Take a look, if you will, at Exhibit 15. (Exhibit No. 15 marked)	11 12 13 14 15 16 17 18 19 20 21 22	standards. Correct? A. Yes. Q. Your second opinion is that the fragrance chemicals in these talcum powder products contribute to the inflammatory properties, toxicity, and potential carcinogenicity of these products. Is that right? A. Yes. Q. Is it your opinion that the fragrance chemicals alone can cause cancers? MS. O'DELL: Objection; form. A. I was not asked to make that

	Page 106		Page 108
1	BY MR. ZELLERS:	1	MS. O'DELL: Object to the form,
2	Q. You are not expressing an	2	asked and answered. You may answer the
3	opinion as to whether or not the fragrance	3	question.
4	chemicals alone can either cause cancer or	4	A. No, I did I wasn't asked to
5	increase the risk of cancer. Correct?	5	consider that.
6	MS. O'DELL: Object to the form.	6	BY MR. ZELLERS:
7	A. That's that's correct.	7	Q. You are not rendering any
8	BY MR. ZELLERS:	8	opinion that fragrance chemicals plus talc
9	Q. It also strike that.	9	cause ovarian cancer. Correct? You leave
10	You also are not expressing any	10	that to other experts?
11	opinion that the fragrance chemicals alone	11	A. That's correct.
12	can cause or increase the risk for ovarian	12	Q. You are not offering any
13	cancer. Correct?	13	opinions about the inhalation exposure to
14	A. That's correct.	14	fragrance chemicals. Is that right?
15	Q. Are you aware of any	15	A. That's correct.
16	epidemiology that substantiates the theory	16	Q. You're not providing any
17	that fragrance chemicals in tale can either	17	opinions relating to asbestos. Correct?
18	cause cancer or increase the risk of cancer?	18	A. That's correct.
19	MS. O'DELL: Object to the form.	19	Q. Your opinions in this matter,
20	A. Yeah. As I cited in my report,	20	other than putting them in your report, have
21	there's a number of fragrance chemicals with	21	you published on them?
22	demonstrated in vitro and in vivo studies	22	A. No.
23	that demonstrated a higher risk or, in fact,	23	Q. What methodology strike that.
24	in which cancer occurred.	24	Why haven't you published on
	in which cancer occurred.		why haven't you paonshed on
	Page 107		Page 109
1	Page 107 BY MR. ZELLERS:	1	Page 109 your opinions that you're expressing in this
1 2		1 2	
	BY MR. ZELLERS:		your opinions that you're expressing in this
2	BY MR. ZELLERS: Q. Those studies you cite to	2	your opinions that you're expressing in this case?
2 3	BY MR. ZELLERS: Q. Those studies you cite to A. Yes. Q are reference let me finish.	2 3	your opinions that you're expressing in this case? A. I signed a protective order. This is all confidential information. Q. What methodology did you use in
2 3 4	BY MR. ZELLERS: Q. Those studies you cite to A. Yes. Q are reference let me	2 3 4	your opinions that you're expressing in this case? A. I signed a protective order. This is all confidential information.
2 3 4 5	BY MR. ZELLERS: Q. Those studies you cite to A. Yes. Q are reference let me finish.	2 3 4 5	your opinions that you're expressing in this case? A. I signed a protective order. This is all confidential information. Q. What methodology did you use in
2 3 4 5 6	BY MR. ZELLERS: Q. Those studies you cite to A. Yes. Q are reference let me finish. Those studies you cite to are	2 3 4 5 6	your opinions that you're expressing in this case? A. I signed a protective order. This is all confidential information. Q. What methodology did you use in reaching your opinions in this case?
2 3 4 5 6 7	BY MR. ZELLERS: Q. Those studies you cite to A. Yes. Q are reference let me finish. Those studies you cite to are referenced in your report. Is that right? A. Yes. Q. For any individual plaintiff in	2 3 4 5 6 7	your opinions that you're expressing in this case? A. I signed a protective order. This is all confidential information. Q. What methodology did you use in reaching your opinions in this case? A. I was given the list of fragrance chemicals. I set about identifying them. The names of the chemicals were in the
2 3 4 5 6 7 8 9	BY MR. ZELLERS: Q. Those studies you cite to A. Yes. Q are reference let me finish. Those studies you cite to are referenced in your report. Is that right? A. Yes. Q. For any individual plaintiff in this litigation, do you know what amount of	2 3 4 5 6 7 8 9	your opinions that you're expressing in this case? A. I signed a protective order. This is all confidential information. Q. What methodology did you use in reaching your opinions in this case? A. I was given the list of fragrance chemicals. I set about identifying them. The names of the chemicals were in the Thomas Dydek report. That often started by
2 3 4 5 6 7 8 9 10	BY MR. ZELLERS: Q. Those studies you cite to A. Yes. Q are reference let me finish. Those studies you cite to are referenced in your report. Is that right? A. Yes. Q. For any individual plaintiff in this litigation, do you know what amount of fragrance chemicals individual plaintiffs	2 3 4 5 6 7 8	your opinions that you're expressing in this case? A. I signed a protective order. This is all confidential information. Q. What methodology did you use in reaching your opinions in this case? A. I was given the list of fragrance chemicals. I set about identifying them. The names of the chemicals were in the Thomas Dydek report. That often started by just plugging that into Google or PubChem to
2 3 4 5 6 7 8 9 10 11	BY MR. ZELLERS: Q. Those studies you cite to A. Yes. Q are reference let me finish. Those studies you cite to are referenced in your report. Is that right? A. Yes. Q. For any individual plaintiff in this litigation, do you know what amount of fragrance chemicals individual plaintiffs were exposed to?	2 3 4 5 6 7 8 9	your opinions that you're expressing in this case? A. I signed a protective order. This is all confidential information. Q. What methodology did you use in reaching your opinions in this case? A. I was given the list of fragrance chemicals. I set about identifying them. The names of the chemicals were in the Thomas Dydek report. That often started by just plugging that into Google or PubChem to see what I could find.
2 3 4 5 6 7 8 9 10 11 12	BY MR. ZELLERS: Q. Those studies you cite to A. Yes. Q are reference let me finish. Those studies you cite to are referenced in your report. Is that right? A. Yes. Q. For any individual plaintiff in this litigation, do you know what amount of fragrance chemicals individual plaintiffs were exposed to? MS. O'DELL: Object to the form.	2 3 4 5 6 7 8 9 10 11 12 13	your opinions that you're expressing in this case? A. I signed a protective order. This is all confidential information. Q. What methodology did you use in reaching your opinions in this case? A. I was given the list of fragrance chemicals. I set about identifying them. The names of the chemicals were in the Thomas Dydek report. That often started by just plugging that into Google or PubChem to see what I could find. After doing that, I would then
2 3 4 5 6 7 8 9 10 11 12 13 14	BY MR. ZELLERS: Q. Those studies you cite to A. Yes. Q are reference let me finish. Those studies you cite to are referenced in your report. Is that right? A. Yes. Q. For any individual plaintiff in this litigation, do you know what amount of fragrance chemicals individual plaintiffs were exposed to? MS. O'DELL: Object to the form. A. No, I do not.	2 3 4 5 6 7 8 9 10 11 12	your opinions that you're expressing in this case? A. I signed a protective order. This is all confidential information. Q. What methodology did you use in reaching your opinions in this case? A. I was given the list of fragrance chemicals. I set about identifying them. The names of the chemicals were in the Thomas Dydek report. That often started by just plugging that into Google or PubChem to see what I could find. After doing that, I would then try to identify a CAS number so I could
2 3 4 5 6 7 8 9 10 11 12 13 14	BY MR. ZELLERS: Q. Those studies you cite to A. Yes. Q are reference let me finish. Those studies you cite to are referenced in your report. Is that right? A. Yes. Q. For any individual plaintiff in this litigation, do you know what amount of fragrance chemicals individual plaintiffs were exposed to? MS. O'DELL: Object to the form. A. No, I do not. BY MR. ZELLERS:	2 3 4 5 6 7 8 9 10 11 12 13 14 15	your opinions that you're expressing in this case? A. I signed a protective order. This is all confidential information. Q. What methodology did you use in reaching your opinions in this case? A. I was given the list of fragrance chemicals. I set about identifying them. The names of the chemicals were in the Thomas Dydek report. That often started by just plugging that into Google or PubChem to see what I could find. After doing that, I would then try to identify a CAS number so I could cross-reference it into various databases and
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	BY MR. ZELLERS: Q. Those studies you cite to A. Yes. Q are reference let me finish. Those studies you cite to are referenced in your report. Is that right? A. Yes. Q. For any individual plaintiff in this litigation, do you know what amount of fragrance chemicals individual plaintiffs were exposed to? MS. O'DELL: Object to the form. A. No, I do not. BY MR. ZELLERS: Q. Did you make any effort to	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	your opinions that you're expressing in this case? A. I signed a protective order. This is all confidential information. Q. What methodology did you use in reaching your opinions in this case? A. I was given the list of fragrance chemicals. I set about identifying them. The names of the chemicals were in the Thomas Dydek report. That often started by just plugging that into Google or PubChem to see what I could find. After doing that, I would then try to identify a CAS number so I could cross-reference it into various databases and gather the physical and chemical properties,
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	BY MR. ZELLERS: Q. Those studies you cite to A. Yes. Q are reference let me finish. Those studies you cite to are referenced in your report. Is that right? A. Yes. Q. For any individual plaintiff in this litigation, do you know what amount of fragrance chemicals individual plaintiffs were exposed to? MS. O'DELL: Object to the form. A. No, I do not. BY MR. ZELLERS: Q. Did you make any effort to discern any individual plaintiff's level of	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	your opinions that you're expressing in this case? A. I signed a protective order. This is all confidential information. Q. What methodology did you use in reaching your opinions in this case? A. I was given the list of fragrance chemicals. I set about identifying them. The names of the chemicals were in the Thomas Dydek report. That often started by just plugging that into Google or PubChem to see what I could find. After doing that, I would then try to identify a CAS number so I could cross-reference it into various databases and gather the physical and chemical properties, as well as the safety profile, in vitro or in
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	BY MR. ZELLERS: Q. Those studies you cite to A. Yes. Q are reference let me finish. Those studies you cite to are referenced in your report. Is that right? A. Yes. Q. For any individual plaintiff in this litigation, do you know what amount of fragrance chemicals individual plaintiffs were exposed to? MS. O'DELL: Object to the form. A. No, I do not. BY MR. ZELLERS: Q. Did you make any effort to discern any individual plaintiff's level of exposure?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	your opinions that you're expressing in this case? A. I signed a protective order. This is all confidential information. Q. What methodology did you use in reaching your opinions in this case? A. I was given the list of fragrance chemicals. I set about identifying them. The names of the chemicals were in the Thomas Dydek report. That often started by just plugging that into Google or PubChem to see what I could find. After doing that, I would then try to identify a CAS number so I could cross-reference it into various databases and gather the physical and chemical properties, as well as the safety profile, in vitro or in vivo studies, and any published or known
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	BY MR. ZELLERS: Q. Those studies you cite to A. Yes. Q are reference let me finish. Those studies you cite to are referenced in your report. Is that right? A. Yes. Q. For any individual plaintiff in this litigation, do you know what amount of fragrance chemicals individual plaintiffs were exposed to? MS. O'DELL: Object to the form. A. No, I do not. BY MR. ZELLERS: Q. Did you make any effort to discern any individual plaintiff's level of exposure? A. No. I wasn't asked to consider	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	your opinions that you're expressing in this case? A. I signed a protective order. This is all confidential information. Q. What methodology did you use in reaching your opinions in this case? A. I was given the list of fragrance chemicals. I set about identifying them. The names of the chemicals were in the Thomas Dydek report. That often started by just plugging that into Google or PubChem to see what I could find. After doing that, I would then try to identify a CAS number so I could cross-reference it into various databases and gather the physical and chemical properties, as well as the safety profile, in vitro or in vivo studies, and any published or known pharmacological properties.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	BY MR. ZELLERS: Q. Those studies you cite to A. Yes. Q are reference let me finish. Those studies you cite to are referenced in your report. Is that right? A. Yes. Q. For any individual plaintiff in this litigation, do you know what amount of fragrance chemicals individual plaintiffs were exposed to? MS. O'DELL: Object to the form. A. No, I do not. BY MR. ZELLERS: Q. Did you make any effort to discern any individual plaintiff's level of exposure? A. No. I wasn't asked to consider that.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	your opinions that you're expressing in this case? A. I signed a protective order. This is all confidential information. Q. What methodology did you use in reaching your opinions in this case? A. I was given the list of fragrance chemicals. I set about identifying them. The names of the chemicals were in the Thomas Dydek report. That often started by just plugging that into Google or PubChem to see what I could find. After doing that, I would then try to identify a CAS number so I could cross-reference it into various databases and gather the physical and chemical properties, as well as the safety profile, in vitro or in vivo studies, and any published or known pharmacological properties. I would then go to IFRA and CIR
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	BY MR. ZELLERS: Q. Those studies you cite to A. Yes. Q are reference let me finish. Those studies you cite to are referenced in your report. Is that right? A. Yes. Q. For any individual plaintiff in this litigation, do you know what amount of fragrance chemicals individual plaintiffs were exposed to? MS. O'DELL: Object to the form. A. No, I do not. BY MR. ZELLERS: Q. Did you make any effort to discern any individual plaintiff's level of exposure? A. No. I wasn't asked to consider that. Q. Did you make any effort to	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	your opinions that you're expressing in this case? A. I signed a protective order. This is all confidential information. Q. What methodology did you use in reaching your opinions in this case? A. I was given the list of fragrance chemicals. I set about identifying them. The names of the chemicals were in the Thomas Dydek report. That often started by just plugging that into Google or PubChem to see what I could find. After doing that, I would then try to identify a CAS number so I could cross-reference it into various databases and gather the physical and chemical properties, as well as the safety profile, in vitro or in vivo studies, and any published or known pharmacological properties. I would then go to IFRA and CIR websites and look at their the information
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	BY MR. ZELLERS: Q. Those studies you cite to A. Yes. Q are reference let me finish. Those studies you cite to are referenced in your report. Is that right? A. Yes. Q. For any individual plaintiff in this litigation, do you know what amount of fragrance chemicals individual plaintiffs were exposed to? MS. O'DELL: Object to the form. A. No, I do not. BY MR. ZELLERS: Q. Did you make any effort to discern any individual plaintiff's level of exposure? A. No. I wasn't asked to consider that. Q. Did you make any effort to discern whether any individual plaintiff was	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	your opinions that you're expressing in this case? A. I signed a protective order. This is all confidential information. Q. What methodology did you use in reaching your opinions in this case? A. I was given the list of fragrance chemicals. I set about identifying them. The names of the chemicals were in the Thomas Dydek report. That often started by just plugging that into Google or PubChem to see what I could find. After doing that, I would then try to identify a CAS number so I could cross-reference it into various databases and gather the physical and chemical properties, as well as the safety profile, in vitro or in vivo studies, and any published or known pharmacological properties. I would then go to IFRA and CIR websites and look at their the information they had on it, the FDA website, in
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	BY MR. ZELLERS: Q. Those studies you cite to A. Yes. Q are reference let me finish. Those studies you cite to are referenced in your report. Is that right? A. Yes. Q. For any individual plaintiff in this litigation, do you know what amount of fragrance chemicals individual plaintiffs were exposed to? MS. O'DELL: Object to the form. A. No, I do not. BY MR. ZELLERS: Q. Did you make any effort to discern any individual plaintiff's level of exposure? A. No. I wasn't asked to consider that. Q. Did you make any effort to discern whether any individual plaintiff was actually exposed to harmful levels of	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	your opinions that you're expressing in this case? A. I signed a protective order. This is all confidential information. Q. What methodology did you use in reaching your opinions in this case? A. I was given the list of fragrance chemicals. I set about identifying them. The names of the chemicals were in the Thomas Dydek report. That often started by just plugging that into Google or PubChem to see what I could find. After doing that, I would then try to identify a CAS number so I could cross-reference it into various databases and gather the physical and chemical properties, as well as the safety profile, in vitro or in vivo studies, and any published or known pharmacological properties. I would then go to IFRA and CIR websites and look at their the information they had on it, the FDA website, in particular the Inactive Ingredient Database.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	BY MR. ZELLERS: Q. Those studies you cite to A. Yes. Q are reference let me finish. Those studies you cite to are referenced in your report. Is that right? A. Yes. Q. For any individual plaintiff in this litigation, do you know what amount of fragrance chemicals individual plaintiffs were exposed to? MS. O'DELL: Object to the form. A. No, I do not. BY MR. ZELLERS: Q. Did you make any effort to discern any individual plaintiff's level of exposure? A. No. I wasn't asked to consider that. Q. Did you make any effort to discern whether any individual plaintiff was	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	your opinions that you're expressing in this case? A. I signed a protective order. This is all confidential information. Q. What methodology did you use in reaching your opinions in this case? A. I was given the list of fragrance chemicals. I set about identifying them. The names of the chemicals were in the Thomas Dydek report. That often started by just plugging that into Google or PubChem to see what I could find. After doing that, I would then try to identify a CAS number so I could cross-reference it into various databases and gather the physical and chemical properties, as well as the safety profile, in vitro or in vivo studies, and any published or known pharmacological properties. I would then go to IFRA and CIR websites and look at their the information they had on it, the FDA website, in

Michael Crowley, Ph.D.

Page 110 Page 112 1 journals, specifically Food and Chemical 1 and to render your opinions. 2 Toxicology, to see what the studies were. I 2 A. I mean, there's books on how you 3 3 looked at the EFSA website, the European Food formulate and the steps that you take to 4 Safety Authorities, you know, all the 4 gather the information on the materials and 5 different places that I've identified in my 5 chemicals that you're going to use to create 6 6 report and gathered as much information as I a composition and how you go about doing 7 could on it. 7 that. So I imagine that it's been published 8 8 Once Appendix A and Appendix B in one way or another. 9 were built, then I started classifying them. 9 Q. To your knowledge, the 10 How many of them are considered -- are 10 methodology that you have used in reviewing classified as irritants? Which ones are the information relating to fragrance 11 11 12 12 allergens? Which ones are eye irritants? chemicals and arriving at your opinions has 13 13 And so forth. not been subject to peer review. Correct? MS. O'DELL: Object to the form. 14 I also looked at, you know, the 14 15 RTECS database, the Registry of Toxic Effects 15 A. I'm not sure I understand your 16 of Chemical Substances, and so forth. 16 question. Look, these are chemicals. Okay? 17 17 I mean, they happen to be fragrances, but There's a tremendous amount of 18 work to identify some of these chemicals 18 they're really no different than a chemical 19 because the names given to me, you know, 19 used to make a food or a pharmaceutical. 20 aren't the standard chemical names. So there 20 They're chemicals. 21 was a significant effort just to try and 21 When you're doing a safety 22 figure out what they were. 22 assessment of them, there's a number of ways 23 Q. Essentially what you have done 23 to collect and collate that information. I 24 in this case is to take the list of fragrance 24 don't think that anything that I did is Page 111 Page 113 1 chemicals or fragrance ingredients and then 1 different than what a standard formulator 2 Google them or ChemPub them and go to 2 would use in putting a product together for 3 3 examining the safety of a -- of a commercial websites, FDA and IFRA and others, to catalog 4 or to list out information about the 4 product. 5 5 fragrance chemicals. Is that right? BY MR. ZELLERS: 6 MS. O'DELL: Object to the form. 6 Q. Do you believe the standard for 7 A. That's -- that's generally 7 proving causation in the scientific 8 8 literature is the same as the one that correct. I also, you know, like I said, 9 9 looked at the technical literature. I mean, applies in litigation? 10 MS. O'DELL: Object to the form. 10 it wasn't just websites, databases. I tried 11 to examine the totality of the evidence for 11 Are you talking about for a specific 12 12 each and every chemical and collate that into disease or --13 a meaningful -- in a meaningful way to 13 MR. ZELLERS: I'm just asking 14 the questions. If you can, just limit 14 examine their properties and to answer the 15 your objection to form. 15 questions that were posed to me. 16 BY MR. ZELLERS: 16 BY MR. ZELLERS: 17 Q. Do you know whether the 17 So I'm asking you that question, 18 Doctor. If you can answer it, please do. If 18 methodology that you've used, whether that's you can't, okay. 19 19 been published anywhere? 20 The methodology that I used to 20 A. Could --21 MS. O'DELL: I object to the 21 gather the information, whether --22 form of the question. It's vague. 22 Q. Yes. 23 It's unclear. But if you understand 23 A. -- that's been published? 24 Used to gather the information 24 it, you may answer it.

PageID: 200375
Michael Crowley, Ph.D.

	Page 114		Page 116
1	A. I was going to ask him to repeat	1	Q. Any others?
2	it, please.	2	A. Yes. d-Limonene was found to
3	BY MR. ZELLERS:	3	be cytotoxic against Chinese hamster ovary
4	Q. Sure. Do you believe the	4	cells. I'm not sure how to pronounce the
5	standard for proving causation in the	5	name of this author, but it's
6	scientific literature is the same as the one	6	K-P-O-V-I-E-S-S-I, et al., from 2014.
7		7	
8	that applies in litigation? A. I'm not sure.	8	Q. What page of your report?
			A. Page 22.
9	Q. Are you aware of any publication	9	Q. All right. Any other articles
10	that links the fragrance chemicals in baby	10	or publications that link the fragrance
11	powder and Shower to Shower to ovarian	11 12	chemicals or a fragrance chemical that you
12	cancer?		believe is in baby powder and Shower to
13	MS. O'DELL: Object to the form.	13	Shower to ovarian cancer?
14	A. I don't believe I found a source	14	A. There's a bunch of them.
15	that made that association. However, you	15	Page 22, Skatole, cytotoxic against Chinese
16	know, as I said earlier, a number of these	16	hamster ovary cells. That was in Reddy,
17	chemicals have demonstrated studies against	17	2002.
18	Chinese hamster ovary cells or in vivo animal	18	Q. Any others?
19	studies in which cancers in the ovaries were	19	A. Yes. Styrene, cytogenic DNA
20	found.	20	damage, DNA inhibition, sister chromatid
21	BY MR. ZELLERS:	21	THE REPORTER: I'm sorry. Try
22	Q. Doctor, you have found no	22	to slow down for me. I've got to write
23	publication that links the fragrance	23	what you're saying.
24	chemicals in baby powder and Shower to Shower	24	THE WITNESS: I'm sorry.
	Page 115		Page 117
1	and human ovarian cancer. Correct?	1	THE REPORTER: That's okay.
2	A. Human ovarian cancer?	2	A. Cytogenic DNA damage, DNA
3	Q. Yes.	3	inhibition, sister chromatid exchange, un
4	MS. O'DELL: Excuse me. Object	4	BY MR. ZELLERS:
5	to the form. You may answer.	5	Q. And that relates to ovarian
6	A. Not humans, no. Animal models,	6	cancer. Correct?
7	yes.	7	A. Yes.
8	BY MR. ZELLERS:	8	MS. O'DELL: Please finish,
9	Q. What animal models are you	9	Dr. Crowley.
10	referring to that relate to fragrance	10	A. Benzyl alcohol, cytogenic in
11	chemicals?	11	Chinese hamster ovary cells, National
12	A. I'm going to refer to my report.	12	Toxicology Program, 1989.
13	Q. Sure.	13	Citral, selective oocyte
14	A. So benzaldehyde, sister	14	degeneration and impaired fertility in female
15	chromatid exchange, which is a mutation, in	15	rats. Toaff, which is spelled T-O-A-F-F,
16	Chinese hamster ovary cells. That was	16	Abramovici, Sporn & Liban, 1979.
17	published by Galloway in '87.	17	Valid genotoxic (induction of
18	Q. What reference is that?	18	sister chromatid exchange) in Chinese hamster
19	A. Galloway, et al., 1987.	19	ovary cells, National Toxicology Program,
20	Q. You're reading from your report.	20	2003. And same author as before,
21	A. That's correct.	21	K-P-O-V-I-E-S-S-I, 2014.
22	Q. What page of your report are you	22	Coumarin, sister chromatic
23	reading from?	23	exchange in Chinese hamster ovary cells,
24	A. Page 22.	24	Galloway, 1987.

	Page 118		Page 120
1	BY MR. ZELLERS:	1	BY MR. ZELLERS:
2	Q. Are you finished?	2	Q. Are you familiar with a paradigm
3	A. No. Ethyl methylphenylglycidate	3	developed by the National Academy Of
4	sister chromatid exchange and chromosomal	4	Sciences, also known as the NRC?
5	aberrations in Chinese hamster ovary cells,	5	A. I have heard of the NRC. I'm
6	Galloway, 1987.	6	trying to remember what the acronym stands
7	European Food Safety Authority,	7	for. Would you please enlighten me?
8	same substance. There's substantial evidence	8	Q. Let's go step by step.
9	of a genotoxic potential from the available	9	(Exhibit No. 16 marked)
10	in vitro and in vivo studies.	10	BY MR. ZELLERS:
11	Eugenol, sister chromatid	11	Q. Deposition Exhibit 16 is an EPA
12	exchange and chromosomal aberrations in	12	NRC Risk Assessment Paradigm. Is that right?
13	Chinese hamster ovary cells, Galloway, 1987.	13	MS. O'DELL: If you haven't seen
14	Styrax oil, sister chromatid	14	this before, Doctor
15	exchange in Chinese hamster ovary cells,	15	THE WITNESS: I haven't
16	•	16	MS. O'DELL: feel free to
	Gulati, Witt, Anderson, Zeiger & Shelby,		
17	1989.	17	take a few minutes and
18	para-Cresol, cytogenetic in	18	A. I haven't seen this particular
19	Chinese hamster ovary cells, DNA damage in	19	document before.
20	human lymphocytes, morphologic	20	BY MR. ZELLERS:
21	transformations in mice, RTECS, the Cosmetic	21	Q. Are you generally familiar with
22	Ingredient Review Panel, 2006.	22	risk assessment?
23	para-Cresol was considered	23	A. Yes.
24	positive for reducing chromosomal aberrations	24	Q. Are you aware and do you agree
	Page 119		Page 121
1	in Chinese hamster ovary cells under both	1	that there's different stages or steps to a
2	activation and non-activation conditions.	2	risk assessment?
3	para-Cymene, cytotoxic against	3	A. Yes.
4	Chinese hamster ovary cells.	4	Q. Look at the bottom of Page 16.
5	Q. Are you finished?	5	A. I only have three pages here.
6	A. Propanedioic acid, diethyl	6	Q. I'm sorry. That's a bad
7	ester, tumorigenic in mice following oral	7	question. Let me withdraw it.
8	dosing, RTECS.	8	Look at the bottom of the first
9	Q. Are you finished?	9	page of Deposition Exhibit 16, which sets
10	A. That's that's the baby powder	10	forth the National Academy of Sciences' risk
11	product. I'd like to go to Shower to Shower,	11	assessment steps.
12	if you'd like.	12	Do you see that at the bottom of
13	Q. Is it all listed in your report?	13	the first page of Exhibit 16?
14	A. Yes.	14	A. Yes.
15	Q. All right. Let's move on, and	15	Q. Do you agree that the steps in a
16	we'll incorporate, as we have, your report	16	risk assessment are; No. 1, hazard
17	into your response.	17	identification; No. 2, dose response
18	You are familiar strike that.	18	assessment; No. 3, exposure assessment, and,
19	Are you familiar with a human	19	No. 4, risk characterization?
20	health risk assessment?	20	MS. O'DELL: Objection; form.
21	MS. O'DELL: Object to the form	21	A. That's what it says.
	of to the preamble to the question.	22	BY MR. ZELLERS:
22			E I IIII ELLLELIO.
22 23		23	O. Are you generally familiar with
22 23 24	A. Yes.	23 24	Q. Are you generally familiar with these steps of a risk assessment?

PageID: 200377 Michael Crowley, Ph.D.

	Page 122		Page 124
1	A. Yes.	1	hazard. I was provided with a list of
2	Q. All four steps are necessary to	2	chemicals and asked two questions.
3	complete a full risk assessment. Is that	3	O. You have not done a dose
4	right?	4	response assessment in this case for any of
5	MS. O'DELL: Object to the form.	5	the fragrance chemicals in either the talc
6	A. According to this paradigm and	6	powder or the Shower to Shower powder.
7	this model.	7	Correct?
8	BY MR. ZELLERS:	8	A. I was unable to do it because I
9	Q. And according to your	9	wasn't given, No. 1, the information to know
10	background, your training, your education.	10	how much of each fragrance chemical was
11	Is that right?	11	present in the composition, and when we were
12	MS. O'DELL: Object to form.	12	given that information, there's no units
13	BY MR. ZELLERS:	13	there.
14	Q. Or do you have any background	14	More importantly, you know, as I
15	training in risk assessment?	15	just cited from my report, some of these
16	A. I do have background in it,	16	fragrance chemicals are genotoxic. You don't
17	and	17	need to do a dose response relationship for a
18	Q. Do you agree that generally	18	genotoxic material, because genotoxins you
19	MS. O'DELL: Excuse me, sir. I	19	need one molecule for there to be an
20	don't think he was finished.	20	increased risk, one.
21	A. Yeah. I would have to study	21	Q. You have not done any exposure
22	this in greater detail to ensure that it's	22	assessment in this case. Correct?
23	consistent with how I've seen it done. I'm	23	A. That's correct. I was not asked
24	more familiar with the FDA's risk assessment	24	to do so.
	Page 123		Page 125
			1490 123
1	models. And there's another model called the	1	Q. You have not done a risk
1 2	models. And there's another model called the Muller model that's been used in toxicology	1 2	
			Q. You have not done a risk
2	Muller model that's been used in toxicology	2	Q. You have not done a risk characterization or analysis in this case.
2 3	Muller model that's been used in toxicology and pharmacology.	2 3	Q. You have not done a risk characterization or analysis in this case. Correct?
2 3 4	Muller model that's been used in toxicology and pharmacology. BY MR. ZELLERS:	2 3 4	Q. You have not done a risk characterization or analysis in this case. Correct? A. That's correct. And I wasn't
2 3 4 5	Muller model that's been used in toxicology and pharmacology. BY MR. ZELLERS: Q. Did you attempt to do a risk	2 3 4 5	Q. You have not done a risk characterization or analysis in this case. Correct? A. That's correct. And I wasn't asked to do that.
2 3 4 5 6	Muller model that's been used in toxicology and pharmacology. BY MR. ZELLERS: Q. Did you attempt to do a risk assessment analysis in this case?	2 3 4 5 6	Q. You have not done a risk characterization or analysis in this case. Correct? A. That's correct. And I wasn't asked to do that. Q. Are you familiar with
2 3 4 5 6 7	Muller model that's been used in toxicology and pharmacology. BY MR. ZELLERS: Q. Did you attempt to do a risk assessment analysis in this case? A. I wasn't asked to do a risk assessment. Q. Do you think it would be	2 3 4 5 6 7 8	Q. You have not done a risk characterization or analysis in this case. Correct? A. That's correct. And I wasn't asked to do that. Q. Are you familiar with MS. O'DELL: Excuse me. Counsel, with your permission, can I lodge my objection? I was slow off the
2 3 4 5 6 7 8 9	Muller model that's been used in toxicology and pharmacology. BY MR. ZELLERS: Q. Did you attempt to do a risk assessment analysis in this case? A. I wasn't asked to do a risk assessment. Q. Do you think it would be important in terms of arriving at your	2 3 4 5 6 7 8 9	Q. You have not done a risk characterization or analysis in this case. Correct? A. That's correct. And I wasn't asked to do that. Q. Are you familiar with MS. O'DELL: Excuse me. Counsel, with your permission, can I lodge my objection? I was slow off the mark to that question.
2 3 4 5 6 7 8 9 10	Muller model that's been used in toxicology and pharmacology. BY MR. ZELLERS: Q. Did you attempt to do a risk assessment analysis in this case? A. I wasn't asked to do a risk assessment. Q. Do you think it would be important in terms of arriving at your opinions in this case to do a risk	2 3 4 5 6 7 8 9 10	Q. You have not done a risk characterization or analysis in this case. Correct? A. That's correct. And I wasn't asked to do that. Q. Are you familiar with MS. O'DELL: Excuse me. Counsel, with your permission, can I lodge my objection? I was slow off the mark to that question. BY MR. ZELLERS:
2 3 4 5 6 7 8 9 10 11 12	Muller model that's been used in toxicology and pharmacology. BY MR. ZELLERS: Q. Did you attempt to do a risk assessment analysis in this case? A. I wasn't asked to do a risk assessment. Q. Do you think it would be important in terms of arriving at your opinions in this case to do a risk assessment?	2 3 4 5 6 7 8 9 10 11 12	Q. You have not done a risk characterization or analysis in this case. Correct? A. That's correct. And I wasn't asked to do that. Q. Are you familiar with MS. O'DELL: Excuse me. Counsel, with your permission, can I lodge my objection? I was slow off the mark to that question. BY MR. ZELLERS: Q. Are you familiar with the
2 3 4 5 6 7 8 9 10 11 12 13	Muller model that's been used in toxicology and pharmacology. BY MR. ZELLERS: Q. Did you attempt to do a risk assessment analysis in this case? A. I wasn't asked to do a risk assessment. Q. Do you think it would be important in terms of arriving at your opinions in this case to do a risk assessment? MS. O'DELL: Object to the form.	2 3 4 5 6 7 8 9 10 11 12	Q. You have not done a risk characterization or analysis in this case. Correct? A. That's correct. And I wasn't asked to do that. Q. Are you familiar with MS. O'DELL: Excuse me. Counsel, with your permission, can I lodge my objection? I was slow off the mark to that question. BY MR. ZELLERS: Q. Are you familiar with the concept of dose response?
2 3 4 5 6 7 8 9 10 11 12 13	Muller model that's been used in toxicology and pharmacology. BY MR. ZELLERS: Q. Did you attempt to do a risk assessment analysis in this case? A. I wasn't asked to do a risk assessment. Q. Do you think it would be important in terms of arriving at your opinions in this case to do a risk assessment? MS. O'DELL: Object to the form. A. Not necessarily.	2 3 4 5 6 7 8 9 10 11 12 13	Q. You have not done a risk characterization or analysis in this case. Correct? A. That's correct. And I wasn't asked to do that. Q. Are you familiar with MS. O'DELL: Excuse me. Counsel, with your permission, can I lodge my objection? I was slow off the mark to that question. BY MR. ZELLERS: Q. Are you familiar with the concept of dose response? A. Yes.
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PageID: 200378
Michael Crowley, Ph.D.

	Page 126		Page 128
1	have the dose response relationship.	1	because it couldn't be reproduced or the
2	Q. You've not considered dose	2	study design is not consistent with
3	response in this case. Correct?	3	established standard."
4	A. I wasn't asked	4	So I certainly took those into
5	MS. O'DELL: Excuse me. Object	5	consideration as well. So if it was a study
6	to the form, misstates his testimony.	6	that was not considered to be valid, I didn't
7	You may answer the question.	7	report it.
8	BY MR. ZELLERS:	8	BY MR. ZELLERS:
9	Q. Go ahead.	9	Q. There is a difference between
10	A. I was not asked to, and I was	10	animal studies and human studies. Correct?
11	unable to based on the information that I was	11	A. That's correct.
12	given.	12	Q. You can't just apply an animal
13	Q. Those fragrance chemicals that	13	study or results of an animal study to a
14	you believe are capable of a genotoxic	14	human study. Correct?
15	response, have you identified those in your	15	MS. O'DELL: Object to the form.
16	response, have you identified those in your report?	16	A. I don't know how to answer that
17	A. First of all, I don't believe	17	
			question. What do you mean by "apply"? BY MR. ZELLERS:
18	they are. I didn't to do the research. I'm	18	
19	simply reporting what I found in the	19	Q. I will withdraw the question.
20	research. Those conclusions were drawn by	20	Do you agree that all substances
21	the authors of those studies. I'm simply	21	can be potentially hazardous if the dose is
22	reporting that they were found to have valid	22	too high?
23	genotoxic results.	23	MS. O'DELL: Object to the form.
24	Q. What you did is you went out and	24	A. I mean, that's sort of a
	Page 127		Page 129
1	you were asked by counsel for plaintiffs to	1	hypothetical. What if fairytale land. So
2	catalog the information relating to these	2	I suppose, if you have too much water, you
3	fragrance chemicals. Is that right?	3	could drown, or too much salt, that could
4	MS. O'DELL: Object to the form.	4	cause problems.
5	A. I reviewed the totality of the	5	Generally speaking, poisons are,
6	evidence on the chemicals.	6	you know, dose-and-exposure relationship.
7	BY MR. ZELLERS:	7	So, in that context, yes, most materials
8		8	could be hazardous if too much is consumed or
9	Q. You then have reported that information in your report. Correct?	9	
. 5	miormanon in your report. Correct:	"	if the exposure is too great.
	· · · · · · · · · · · · · · · · · · ·	1 0	
10	MS. O'DELL: Object to the form.	10	BY MR. ZELLERS:
10 11	MS. O'DELL: Object to the form. A. Yes.	11	BY MR. ZELLERS: Q. Do you agree that for chemicals
10 11 12	MS. O'DELL: Object to the form. A. Yes. BY MR. ZELLERS:	11 12	BY MR. ZELLERS: Q. Do you agree that for chemicals and substances there can be multiple routes
10 11 12 13	MS. O'DELL: Object to the form. A. Yes. BY MR. ZELLERS: Q. Any genotoxic characteristic of	11 12 13	BY MR. ZELLERS: Q. Do you agree that for chemicals and substances there can be multiple routes of exposure?
10 11 12 13 14	MS. O'DELL: Object to the form. A. Yes. BY MR. ZELLERS: Q. Any genotoxic characteristic of any of the fragrance chemicals would be set	11 12 13 14	BY MR. ZELLERS: Q. Do you agree that for chemicals and substances there can be multiple routes of exposure? A. I'm not sure what you're asking
10 11 12 13 14 15	MS. O'DELL: Object to the form. A. Yes. BY MR. ZELLERS: Q. Any genotoxic characteristic of any of the fragrance chemicals would be set forth in the information you've collected in	11 12 13 14 15	BY MR. ZELLERS: Q. Do you agree that for chemicals and substances there can be multiple routes of exposure? A. I'm not sure what you're asking me. Yes, you know, you can inhale air and
10 11 12 13 14 15 16	MS. O'DELL: Object to the form. A. Yes. BY MR. ZELLERS: Q. Any genotoxic characteristic of any of the fragrance chemicals would be set forth in the information you've collected in your report. Fair?	11 12 13 14 15 16	BY MR. ZELLERS: Q. Do you agree that for chemicals and substances there can be multiple routes of exposure? A. I'm not sure what you're asking me. Yes, you know, you can inhale air and you can also have transdermal absorption.
10 11 12 13 14 15 16 17	MS. O'DELL: Object to the form. A. Yes. BY MR. ZELLERS: Q. Any genotoxic characteristic of any of the fragrance chemicals would be set forth in the information you've collected in your report. Fair? MS. O'DELL: Object to the form.	11 12 13 14 15 16 17	BY MR. ZELLERS: Q. Do you agree that for chemicals and substances there can be multiple routes of exposure? A. I'm not sure what you're asking me. Yes, you know, you can inhale air and you can also have transdermal absorption. Q. You can also have ingestion.
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Michael Crowley, Ph.D.

Page 130 Page 132 1 administration, typically, is the 1 genotoxic, one molecule is enough to cause an 2 nomenclature used. 2 increase in risk associated with that 3 3 Q. Do you agree that if a person is particular compound. 4 exposed to a substance by ingestion, they 4 So there's general principles 5 will absorb a different amount of a substance 5 that a person of skill can look at, and they 6 than if the substance is applied to the skin, 6 don't need to do a full risk assessment to 7 7 a dermal exposure? draw a conclusion as to its safety or risk 8 8 So you're speaking in associated with an exposure. 9 generalities, and it varies from substance to 9 Q. Your answer to my question 10 substance. The bioavailability is, I think, 10 relates to genotoxic materials. Correct? 11 what you're referring to. So you may eat 11 A. All substances, in general. 12 something and only half of it is absorbed 12 So it is not necessary, in order into the body, a portion of it may be to assess the risk of a substance, to do a 13 13 metabolized in the stomach or not absorbed at 14 14 dose response assessment. Is that your 15 15 testimony? all. 16 It would have a different 16 MS. O'DELL: Object --17 pharmacokinetic profile when absorbed through 17 A. No. I think -the skin, perhaps. So route of 18 18 MS. O'DELL: Excuse me. Object 19 administration does impact pharmacokinetics 19 to the form, misstates his testimony. 20 and biological activity, including toxicology A. Yeah, you're misstating what I 20 21 and pharmacology. 21 just said. I can read an MSDS and have a 22 Q. Can the route of exposure have 22 very good sense on how to handle a chemical 23 an impact on the amount of a substance that 23 or a SafeBridge assessment or any number of is absorbed by the body? 24 24 safety assessments. I don't need to do a Page 131 Page 133 risk analysis. That's already been done and 1 Α. Yes. 1 2 Do you agree that it is not 2 published in the literature. scientifically valid to only identify a 3 3 BY MR. ZELLERS: hazard and then try to formulate conclusions 4 4 Q. Someone, though, has to do -- as about the risk of a particular contaminant 5 5 part of a risk assessment to understand the 6 without going through a full risk assessment? 6 risk of a particular, in this case, fragrance 7 MS. O'DELL: Object to the form. 7 chemical, someone needs to do a dose response 8 A. Can you repeat the question? 8 assessment. Correct? MS. O'DELL: Object to the form. 9 BY MR. ZELLERS: 9 10 Q. Sure. Do you agree that in 10 A. Are you asking me how data 11 order to have a scientifically valid opinion 11 inside an MSDS or a tox study is -- I mean, 12 with respect to the risk of a particular 12 I'm not sure what you're asking me. If 13 contaminant, it is important to go through a 13 you're asking me how tox studies are done and 14 full risk assessment? 14 how safety information on chemicals is 15 A. No. 15 created, they generally are done. I don't 16 MS. O'DELL: Object to the form. 16 need to do one to review the data available 17 BY MR. ZELLERS: on something to understand the risk 17 18 O. It's not necessary? 18 associated with that particular chemical. 19 A. No. 19 BY MR. ZELLERS: 20 Q. It's not necessary to look at 20 Q. My question is: Someone, in 21 dose response in that relationship. Correct? 21 order to assess the risk of a particular A. As I told you earlier, genotoxic 22 22 chemical, needs to do a risk assessment. materials do not live under a dose response 23 23 Correct? 24 relationship. If it's been classified as 24 A. They can do -- certainly do

PageID: 200380
Michael Crowley, Ph.D.

	Page 134		Page 136
1	that.	1	A. I counted. The same way for
2	Q. The risk assessment, one element	2	baby powder. I counted based off of the
3	or part of it, would be to do a dose response	3	information disclosed.
4	assessment. Correct?	4	Q. In Dr. Dydek's report?
5	A. That is often done with new	5	A. Yeah.
6	molecular entities and chemicals to establish	6	MS. O'DELL: Object to the form.
7	their safety profile.	7	BY MR. ZELLERS:
8	Q. Another part of a risk	8	Q. Does the list of fragrance
9	assessment would be an exposure assessment.	9	chemicals that you relied on indicate the
10	Correct?	10	amount of each chemical in baby powder?
11	A. Yes.	11	A. No.
12	O. There then would be a risk	12	O. Does it indicate the amount of
13	characterization. Is that right?	13	each chemical in baby powder strike that.
14	MS. O'DELL: Object to the form.	14	Withdraw.
15	A. Yes.	15	Does it indicate the amount of
16	BY MR. ZELLERS:	16	each chemical in Shower to Shower?
17	Q. All right. You have not done	17	A. No.
18	that analysis for the fragrance chemicals	18	Q. What is the concentration of
19	identified in the talcum powder in this case.	19	each of the fragrance chemicals that you have
20	Correct?	20	identified in a bottle of baby powder?
21		21	
22	MS. O'DELL: Objection.	22	MS. O'DELL: Object to the form.
23	A. No. I relied upon the available	23	A. I don't know. I wasn't provided that information.
24	information for the chemicals from, you know,	24	that information.
24	MSDS sheets and the published studies that	24	
	Page 135		Page 137
1	did do those things.	1	BY MR. ZELLERS:
2	BY MR. ZELLERS:	2	Q. What is the concentration of
3	Q. In your report, you state that	3	each of the fragrance chemicals that you have
4	there are 141 fragrance chemicals in baby	4	identified in a bottle of Shower to Shower?
5	powder. Is that right?	5	A. I don't know. I wasn't provided
6	A. Yes.	6	that information.
7	Q. Where did you get that number	7	Q. Can you tell me how much of each
8	from?	8	fragrance chemical is in one ounce of baby
9	A. I counted the ones that were	9	powder?
10	disclosed to me in the Dydek report, and I	10	A. No, I cannot.
11	noted that some of those fragrances are	11	Q. In one ounce of Shower to
12	actually mixtures of chemicals themselves.	12	Shower?
13	So, for example, certain gums are actually	13	A. No, I can't. In part, it would
14	or resins are actually crude extracts that	14	have been nice to have seen where in
15	are actually a combination. And I think I	15	industry standard content uniformity studies.
16	used the word "at least."	16	So the fragrance is blended with talcum
17	Q. You did not do any independent	17	powder, and it's industry standard to take
	testing of the baby powder to try to	18	aliquots of the blend and test them to verify
18	resume of the care power to try to	1	4 4 4 1 1 10 1 11 1
	determine what fragrance chemicals were	19	that they're uniformly and homogeneously
18	determine what fragrance chemicals were	19 20	mixed, but that information wasn't made
18 19	determine what fragrance chemicals were included in the powder. Correct?		• • • • • • • • • • • • • • • • • • • •
18 19 20	determine what fragrance chemicals were included in the powder. Correct? A. No, I did not do any testing.	20	mixed, but that information wasn't made
18 19 20 21	determine what fragrance chemicals were included in the powder. Correct? A. No, I did not do any testing. Q. In your report, you say there	20 21	mixed, but that information wasn't made available to me.
18 19 20 21 22	determine what fragrance chemicals were included in the powder. Correct? A. No, I did not do any testing.	20 21 22	mixed, but that information wasn't made available to me. Q. Did you ask counsel for that

	Page 138		Page 140
1	Q. Did you do any independent	1	want to complete your answer, Doctor,
2	testing to determine the concentration of the	2	you are welcome to do that.
3	fragrance chemicals?	3	A. Yeah. So it's disclosed in
4	A. No.	4	my in my report. I reviewed the FDA's
5	Q. In what other products are any	5	Inactive Ingredient Database for each one of
6	of these ingredients used? Are you	6	these chemicals, and on Page 43, Table 14
7	A. I wasn't asked to consider that.	7	lists those chemicals that are listed on the
8	MS. O'DELL: Excuse me. Excuse	8	Inactive Ingredient Database.
9	me. When you say "ingredients," you're	9	Those chemicals listed for
10	talking about the totality of all the	10	topical administration in other words, to
11	chemicals that are listed in his	11	the skin and those chemicals that are
12	report, or are you asking just	12	listed for vaginal administration. According
13	generally are there other products that	13	to paragraph or Table 14 on Page 43,
14	they're used in?	14	benzyl alcohol present in baby powder is
15	MR. ZELLERS: Counsel, I'm more	15	listed for vaginal administration. That's
16	concerned if the witness doesn't	16	the only one in baby powder.
17	understand the question than whether	17	In Shower to Shower, that
18	you understand the question. My	18	information is in Table 23 on Page 61, the
19	question	19	same type of table with IID listed, topical
20	MS. O'DELL: I understand that,	20	administration and vaginal administration.
21	but I need to understand in order to	21	In Shower to Shower, propylene glycol and
22	object and make my record, so	22	t-butyl hydroquinone are the only two that
23	BY MR. ZELLERS:	23	are in approved products for vaginal
24	Q. My question is: Did you attempt	24	administration.
	Page 139		Page 141
1	Page 139 to look or make a determination as to in what	1	Page 141 BY MR. ZELLERS:
1 2	to look or make a determination as to in what other products any of these fragrance	1 2	BY MR. ZELLERS: Q. Do you know when the list of
2	to look or make a determination as to in what other products any of these fragrance chemicals are used?		BY MR. ZELLERS: Q. Do you know when the list of fragrance chemicals that you relied on from
2 3 4	to look or make a determination as to in what other products any of these fragrance chemicals are used? A. Yes, I did. I looked on the FDA	2 3 4	BY MR. ZELLERS: Q. Do you know when the list of fragrance chemicals that you relied on from Dr. Dydek's report was produced?
2 3 4 5	to look or make a determination as to in what other products any of these fragrance chemicals are used? A. Yes, I did. I looked on the FDA Inactive Ingredients Database.	2 3 4 5	BY MR. ZELLERS: Q. Do you know when the list of fragrance chemicals that you relied on from Dr. Dydek's report was produced? MS. O'DELL: Object to the form.
2 3 4 5 6	to look or make a determination as to in what other products any of these fragrance chemicals are used? A. Yes, I did. I looked on the FDA Inactive Ingredients Database. Q. Did you make a determination as	2 3 4 5 6	BY MR. ZELLERS: Q. Do you know when the list of fragrance chemicals that you relied on from Dr. Dydek's report was produced? MS. O'DELL: Object to the form. A. Do I know when I received it?
2 3 4 5	to look or make a determination as to in what other products any of these fragrance chemicals are used? A. Yes, I did. I looked on the FDA Inactive Ingredients Database. Q. Did you make a determination as to in what other products they are used	2 3 4 5	BY MR. ZELLERS: Q. Do you know when the list of fragrance chemicals that you relied on from Dr. Dydek's report was produced? MS. O'DELL: Object to the form. A. Do I know when I received it? Are you asking when I got it or
2 3 4 5 6 7 8	to look or make a determination as to in what other products any of these fragrance chemicals are used? A. Yes, I did. I looked on the FDA Inactive Ingredients Database. Q. Did you make a determination as to in what other products they are used vaginally?	2 3 4 5 6 7 8	BY MR. ZELLERS: Q. Do you know when the list of fragrance chemicals that you relied on from Dr. Dydek's report was produced? MS. O'DELL: Object to the form. A. Do I know when I received it? Are you asking when I got it or BY MR. ZELLERS:
2 3 4 5 6 7 8 9	to look or make a determination as to in what other products any of these fragrance chemicals are used? A. Yes, I did. I looked on the FDA Inactive Ingredients Database. Q. Did you make a determination as to in what other products they are used vaginally? A. Yes.	2 3 4 5 6 7 8	BY MR. ZELLERS: Q. Do you know when the list of fragrance chemicals that you relied on from Dr. Dydek's report was produced? MS. O'DELL: Object to the form. A. Do I know when I received it? Are you asking when I got it or BY MR. ZELLERS: Q. My question is: Do you know for
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2 3 4 5 6 7 8 9 10	to look or make a determination as to in what other products any of these fragrance chemicals are used? A. Yes, I did. I looked on the FDA Inactive Ingredients Database. Q. Did you make a determination as to in what other products they are used vaginally? A. Yes. Q. Did you include that in your report?	2 3 4 5 6 7 8 9 10 11	BY MR. ZELLERS: Q. Do you know when the list of fragrance chemicals that you relied on from Dr. Dydek's report was produced? MS. O'DELL: Object to the form. A. Do I know when I received it? Are you asking when I got it or BY MR. ZELLERS: Q. My question is: Do you know for what period of time that list of fragrance ingredients was for?
2 3 4 5 6 7 8 9 10 11 12	to look or make a determination as to in what other products any of these fragrance chemicals are used? A. Yes, I did. I looked on the FDA Inactive Ingredients Database. Q. Did you make a determination as to in what other products they are used vaginally? A. Yes. Q. Did you include that in your report? A. Yes.	2 3 4 5 6 7 8 9 10 11 12	BY MR. ZELLERS: Q. Do you know when the list of fragrance chemicals that you relied on from Dr. Dydek's report was produced? MS. O'DELL: Object to the form. A. Do I know when I received it? Are you asking when I got it or BY MR. ZELLERS: Q. My question is: Do you know for what period of time that list of fragrance ingredients was for? MS. O'DELL: Object to the form.
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2 3 4 5 6 7 8 9 10 11 12 13 14 15	to look or make a determination as to in what other products any of these fragrance chemicals are used? A. Yes, I did. I looked on the FDA Inactive Ingredients Database. Q. Did you make a determination as to in what other products they are used vaginally? A. Yes. Q. Did you include that in your report? A. Yes. Q. What fragrance chemicals did you identify that are used vaginally? A. I'm going to have to go look at	2 3 4 5 6 7 8 9 10 11 12 13 14 15	BY MR. ZELLERS: Q. Do you know when the list of fragrance chemicals that you relied on from Dr. Dydek's report was produced? MS. O'DELL: Object to the form. A. Do I know when I received it? Are you asking when I got it or BY MR. ZELLERS: Q. My question is: Do you know for what period of time that list of fragrance ingredients was for? MS. O'DELL: Object to the form. A. I'm not sure I understand what you're asking me. BY MR. ZELLERS:
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	to look or make a determination as to in what other products any of these fragrance chemicals are used? A. Yes, I did. I looked on the FDA Inactive Ingredients Database. Q. Did you make a determination as to in what other products they are used vaginally? A. Yes. Q. Did you include that in your report? A. Yes. Q. What fragrance chemicals did you identify that are used vaginally? A. I'm going to have to go look at the report, because I don't have that committed to memory, but Q. Well, do you state it or set it	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	BY MR. ZELLERS: Q. Do you know when the list of fragrance chemicals that you relied on from Dr. Dydek's report was produced? MS. O'DELL: Object to the form. A. Do I know when I received it? Are you asking when I got it or BY MR. ZELLERS: Q. My question is: Do you know for what period of time that list of fragrance ingredients was for? MS. O'DELL: Object to the form. A. I'm not sure I understand what you're asking me. BY MR. ZELLERS: Q. Sure. A. Are you asking me do I know what time period that fragrance composition was
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	to look or make a determination as to in what other products any of these fragrance chemicals are used? A. Yes, I did. I looked on the FDA Inactive Ingredients Database. Q. Did you make a determination as to in what other products they are used vaginally? A. Yes. Q. Did you include that in your report? A. Yes. Q. What fragrance chemicals did you identify that are used vaginally? A. I'm going to have to go look at the report, because I don't have that committed to memory, but Q. Well, do you state it or set it forth in the report? A. Yes.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	BY MR. ZELLERS: Q. Do you know when the list of fragrance chemicals that you relied on from Dr. Dydek's report was produced? MS. O'DELL: Object to the form. A. Do I know when I received it? Are you asking when I got it or BY MR. ZELLERS: Q. My question is: Do you know for what period of time that list of fragrance ingredients was for? MS. O'DELL: Object to the form. A. I'm not sure I understand what you're asking me. BY MR. ZELLERS: Q. Sure. A. Are you asking me do I know what time period that fragrance composition was used in those products? Q. Let me try to ask a better
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	to look or make a determination as to in what other products any of these fragrance chemicals are used? A. Yes, I did. I looked on the FDA Inactive Ingredients Database. Q. Did you make a determination as to in what other products they are used vaginally? A. Yes. Q. Did you include that in your report? A. Yes. Q. What fragrance chemicals did you identify that are used vaginally? A. I'm going to have to go look at the report, because I don't have that committed to memory, but Q. Well, do you state it or set it forth in the report? A. Yes. Q. Just tell me the page or where I	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	BY MR. ZELLERS: Q. Do you know when the list of fragrance chemicals that you relied on from Dr. Dydek's report was produced? MS. O'DELL: Object to the form. A. Do I know when I received it? Are you asking when I got it or BY MR. ZELLERS: Q. My question is: Do you know for what period of time that list of fragrance ingredients was for? MS. O'DELL: Object to the form. A. I'm not sure I understand what you're asking me. BY MR. ZELLERS: Q. Sure. A. Are you asking me do I know what time period that fragrance composition was used in those products? Q. Let me try to ask a better question.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	to look or make a determination as to in what other products any of these fragrance chemicals are used? A. Yes, I did. I looked on the FDA Inactive Ingredients Database. Q. Did you make a determination as to in what other products they are used vaginally? A. Yes. Q. Did you include that in your report? A. Yes. Q. What fragrance chemicals did you identify that are used vaginally? A. I'm going to have to go look at the report, because I don't have that committed to memory, but Q. Well, do you state it or set it forth in the report? A. Yes. Q. Just tell me the page or where I can look for that notation.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	BY MR. ZELLERS: Q. Do you know when the list of fragrance chemicals that you relied on from Dr. Dydek's report was produced? MS. O'DELL: Object to the form. A. Do I know when I received it? Are you asking when I got it or BY MR. ZELLERS: Q. My question is: Do you know for what period of time that list of fragrance ingredients was for? MS. O'DELL: Object to the form. A. I'm not sure I understand what you're asking me. BY MR. ZELLERS: Q. Sure. A. Are you asking me do I know what time period that fragrance composition was used in those products? Q. Let me try to ask a better question. Do you know if the list of
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	to look or make a determination as to in what other products any of these fragrance chemicals are used? A. Yes, I did. I looked on the FDA Inactive Ingredients Database. Q. Did you make a determination as to in what other products they are used vaginally? A. Yes. Q. Did you include that in your report? A. Yes. Q. What fragrance chemicals did you identify that are used vaginally? A. I'm going to have to go look at the report, because I don't have that committed to memory, but Q. Well, do you state it or set it forth in the report? A. Yes. Q. Just tell me the page or where I can look for that notation. MS. O'DELL: You you may tell	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	BY MR. ZELLERS: Q. Do you know when the list of fragrance chemicals that you relied on from Dr. Dydek's report was produced? MS. O'DELL: Object to the form. A. Do I know when I received it? Are you asking when I got it or BY MR. ZELLERS: Q. My question is: Do you know for what period of time that list of fragrance ingredients was for? MS. O'DELL: Object to the form. A. I'm not sure I understand what you're asking me. BY MR. ZELLERS: Q. Sure. A. Are you asking me do I know what time period that fragrance composition was used in those products? Q. Let me try to ask a better question. Do you know if the list of fragrance chemicals for the baby powder is
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	to look or make a determination as to in what other products any of these fragrance chemicals are used? A. Yes, I did. I looked on the FDA Inactive Ingredients Database. Q. Did you make a determination as to in what other products they are used vaginally? A. Yes. Q. Did you include that in your report? A. Yes. Q. What fragrance chemicals did you identify that are used vaginally? A. I'm going to have to go look at the report, because I don't have that committed to memory, but Q. Well, do you state it or set it forth in the report? A. Yes. Q. Just tell me the page or where I can look for that notation.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	BY MR. ZELLERS: Q. Do you know when the list of fragrance chemicals that you relied on from Dr. Dydek's report was produced? MS. O'DELL: Object to the form. A. Do I know when I received it? Are you asking when I got it or BY MR. ZELLERS: Q. My question is: Do you know for what period of time that list of fragrance ingredients was for? MS. O'DELL: Object to the form. A. I'm not sure I understand what you're asking me. BY MR. ZELLERS: Q. Sure. A. Are you asking me do I know what time period that fragrance composition was used in those products? Q. Let me try to ask a better question. Do you know if the list of

	Page 142		Page 144
1	A. No, I	1	potential harm caused by the fragrance
2	MS. O'DELL: Objection	2	chemicals in the products?
3	objection to form. You can answer.	3	A. You know, I would have to review
4	A. Yeah, I don't know with	4	those changes and take that into
5	certainty. We did ask for the list of	5	consideration. To be able to provide an
6	fragrance chemicals and all change control	6	open-ended answer without reviewing the
7	documents associated with that composition.	7	underlying information and what those changes
8	So the presumption is that the information	8	were I think would be inappropriate. So I'd
9	that we were given is current.	9	be happy to take that into consideration and
10	As I was finishing this report,	10	be given an opportunity to study it.
11	we were provided some information that showed	11	Q. Let me ask you about your first
12	a few compositional changes over the years.	12	opinion, and that is that several of the
13	For example, styrene, I believe, was removed	13	chemicals used in the J&J Consumer Products,
14	in, I think, 2014.	14	Inc., talc products are not in compliance
15	BY MR. ZELLERS:	15	with governmental and industry standards.
16	Q. Do you know if the list of	16	That's your opinion. Is that right?
17	fragrance chemicals in Shower to Shower that	17	A. Correct.
18	you relied on is the current list of	18	Q. As part of that opinion, you
19	fragrance chemicals?	19	identify 22 fragrance chemicals in baby
20	MS. O'DELL: Object to the form.	20	powder with a regulatory concern. Is that
21	A. Yeah, same answer.	21	right?
22	BY MR. ZELLERS:	22	A. Yes.
23	Q. Do you know if the list of	23	Q. And 20 fragrance chemicals in
24	fragrance chemicals for either baby powder or	24	Shower to Shower with a regulatory concern.
	D 142		
	Page 143		Page 145
1	Shower to Shower has changed over time?	1	Page 145 Is that right?
1 2		1 2	
	Shower to Shower has changed over time?		Is that right?
2	Shower to Shower has changed over time? MS. O'DELL: Object to the form,	2	Is that right? A. Yes.
2	Shower to Shower has changed over time? MS. O'DELL: Object to the form, asked and answered.	2	Is that right? A. Yes. Q. You define regulatory concern as
2 3 4	Shower to Shower has changed over time? MS. O'DELL: Object to the form, asked and answered. A. I answered that. We were	2 3 4	Is that right? A. Yes. Q. You define regulatory concern as seven different categories on Page 18 of your
2 3 4 5	Shower to Shower has changed over time? MS. O'DELL: Object to the form, asked and answered. A. I answered that. We were provided with one document that showed a	2 3 4 5	Is that right? A. Yes. Q. You define regulatory concern as seven different categories on Page 18 of your report. Is that right?
2 3 4 5 6	Shower to Shower has changed over time? MS. O'DELL: Object to the form, asked and answered. A. I answered that. We were provided with one document that showed a history of changes, and it did show some	2 3 4 5 6	Is that right? A. Yes. Q. You define regulatory concern as seven different categories on Page 18 of your report. Is that right? A. Yes.
2 3 4 5 6 7	Shower to Shower has changed over time? MS. O'DELL: Object to the form, asked and answered. A. I answered that. We were provided with one document that showed a history of changes, and it did show some changes over time. BY MR. ZELLERS: Q. That is the only information you	2 3 4 5 6 7	Is that right? A. Yes. Q. You define regulatory concern as seven different categories on Page 18 of your report. Is that right? A. Yes. Q. Is regulatory concern a recognized term in the field of toxicology? MS. O'DELL: Object to the form.
2 3 4 5 6 7 8	Shower to Shower has changed over time? MS. O'DELL: Object to the form, asked and answered. A. I answered that. We were provided with one document that showed a history of changes, and it did show some changes over time. BY MR. ZELLERS: Q. That is the only information you have in terms of how the composition of	2 3 4 5 6 7 8	Is that right? A. Yes. Q. You define regulatory concern as seven different categories on Page 18 of your report. Is that right? A. Yes. Q. Is regulatory concern a recognized term in the field of toxicology?
2 3 4 5 6 7 8 9 10	Shower to Shower has changed over time? MS. O'DELL: Object to the form, asked and answered. A. I answered that. We were provided with one document that showed a history of changes, and it did show some changes over time. BY MR. ZELLERS: Q. That is the only information you	2 3 4 5 6 7 8	Is that right? A. Yes. Q. You define regulatory concern as seven different categories on Page 18 of your report. Is that right? A. Yes. Q. Is regulatory concern a recognized term in the field of toxicology? MS. O'DELL: Object to the form. A. I mean, toxicology and regulations are two different things, so I
2 3 4 5 6 7 8 9	Shower to Shower has changed over time? MS. O'DELL: Object to the form, asked and answered. A. I answered that. We were provided with one document that showed a history of changes, and it did show some changes over time. BY MR. ZELLERS: Q. That is the only information you have in terms of how the composition of	2 3 4 5 6 7 8 9	Is that right? A. Yes. Q. You define regulatory concern as seven different categories on Page 18 of your report. Is that right? A. Yes. Q. Is regulatory concern a recognized term in the field of toxicology? MS. O'DELL: Object to the form. A. I mean, toxicology and
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PageID: 200383
Michael Crowley, Ph.D.

	Page 146		Page 148
1	"regulatory concern." So I borrowed that	1	Table 6. Do you have Table 6 in front of
2	I don't think that's plagiarism, but I	2	you?
3	borrowed the use of those two words to title	3	A. I do. Page 18 and 19 and 20.
4	this section.	4	Q. The column to the right,
5	Q. In the couple of courses that	5	regulatory concern in that column, you
6	you took on toxicology, do you recall being	6	list the reasons you believe the specific
7	taught that regulatory concern is a	7	chemicals you list constitute a regulatory
8	recognized term in that field?	8	concern. Is that right?
9	MS. O'DELL: Object to the form.	9	A. Yes.
10	A. You're confusing two completely	10	Q. You did the same thing for
11	different things.	11	Shower to Shower in Table 15?
12	BY MR. ZELLERS:	12	A. Yes.
13	Q. Can you answer my question?	13	Q. Is that right?
14	A. And I am answering. And, you	14	A. Yes.
15	know, apples and oranges are both fruits, but	15	Q. The reasons that you include in
16	they have different colors. Your question	16	this column are the same seven categories
17	doesn't make any sense at all.	17	that you include in your definition of
18	Regulations and toxicology are	18	regulatory concern from Page 18 of your
19	two different things.	19	report. Is that right?
20	Q. Is regulatory concern a	20	A. Yes.
21	recognized term in the field of regulations?	21	Q. You only strike that.
22	MS. O'DELL: Object to the form.	22	In Table 6 and Table 15, you
23	A. I suppose you could ask the FDA.	23	only identify three specific statutory and/or
24	11 ,	24	regulatory sources in the regulatory concern
	Page 147		Page 149
1	DV MD ZELLEDC.	1	
	BY MR. ZELLERS:	1	column. Is that right?
2	Q. You list all the fragrance	1 2	MS. O'DELL: Object to the form.
	Q. You list all the fragrance chemicals in baby powder that you believe		MS. O'DELL: Object to the form. A. I'd have to go check that.
2 3 4	Q. You list all the fragrance chemicals in baby powder that you believe present a regulatory concern in Table 6 of	2	MS. O'DELL: Object to the form.
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Page 150 Page 152 1 potential regulatory concern that come from 1 finish his answer. 2 your report, Page 18, those are not listed as 2 BY MR. ZELLERS: reasons for regulatory concern in the table. 3 3 Q. You can finish your answer, but 4 4 Is that right? I need you to just answer my questions or 5 MS. O'DELL: Object to the form. 5 we'll be here forever. 6 6 A. I'm sorry. I'm not sure I My question simply was: Did you 7 use the Code of Federal Regulations? Finish 7 follow your question. 8 8 BY MR. ZELLERS: your answer, and then I'll ask another 9 O. And let me ask a better 9 question, but I want to try to move this 10 10 question. along. 11 11 The other four categories that MS. O'DELL: He's answering the you include in the regulatory concern column 12 12 question. Answer it fully. do not cite or reference any regulations or 13 A. I've got all day, so we -- we 13 databases. Is that right? 14 can be here as long as we need to. 14 15 Well, for example, not permitted 15 MS. O'DELL: We're going to be 16 for cosmetic use. Copper chlorophyll, it is 16 here for seven hours on the record, but an approved colorant by FDA, but it's not keep -- you may answer his question. 17 17 A. So all these things are 18 allowed for use in cosmetics. So I didn't 18 19 cite to the specific source of that 19 considered by a scientist when creating a information here in this table, but if you go 20 product, and that includes looking at what 20 to the Appendix A, you can click a hyperlink the government says is allowed to be used, 21 21 and it will take you right to the citation in 22 how it can be used, what kind of products it 22 23 the Code of Federal Regulations. 23 can be used in, how much it can be used for 24 Q. What I'm trying to identify are 24 which given route of administration. And Page 151 Page 153 1 then you go and start looking below that at just the regulations or databases that you're 1 2 relying on with respect to regulatory 2 the regulatory bodies in the world of concern. So, No. 1, you looked at Code of 3 cosmetics. That includes CIR and IFRA -- or 3 Federal Regulations, Title 21. Is that 4 the Food Chemicals Codex if it's something 4 5 5 right? used in foods, or the pharmacopeias, if 6 6 there's a standard for that. A. Yeah. 7 And one of the reasons that you 7 So, you know, when I'm hired to Q. 8 8 help create a product, these are all things list for various fragrance chemicals is that 9 that we consider when we build it. 9 the chemical is not listed in Code of Federal 10 10 Regulations, Title 21. Is that right? MR. ZELLERS: Move to strike as 11 A. That's right. And the reason 11 nonresponsive. 12 BY MR. ZELLERS: 12 for that is when formulation scientists, 13 whether they be a cosmetic chemist, a food 13 Q. To what section of CFR Title 21 are you referring to? 14 14 scientist, or a pharmaceutical scientist, is 15 A. I'm sorry? You're asking me 15 going to create a product, use those that are 16 which section? 16 approved. And one of the first places you Q. Yes. Which -- CFR Title 21 is 17 look is the Code of Federal Regulations on 17 18 big. Right? 18 how they can be used, what they can be used 19 Yeah. 19 in, and how much they can be used for a given A. 20 route of administration. Now you start 20 What section did you look at in 21 terms of your analysis in this case in 21 looking at some of these other regulatory 22 determining that the absence of a listing of bodies for specifications. So this --22 23 a fragrance chemical in CFR Title 21 is a 23 Q. Doctor --24 MS. O'DELL: Excuse me. Let him 24 regulatory concern?

	Page 154		Page 156
1	A. So if you go to the government's	1	ingredients may be excluded from evaluation
2	website, you can pull up Part 21 of the Code	2	by the CIR expert panel if their safety is
3	of Federal Regulations, and you can type in	3	being determined by the Research Institute
4	something and search for it. So I searched	4	for Fragrance Materials?
5	for the whole thing.	5	A. Yes.
6	Generally speaking, GRAS-listed	6	Q. So the CIR may not even review
7	chemicals are have a little monograph	7	fragrance chemicals if RIFM
8	there or a section or code. I looked in the	8	A. And REXPAN have done that.
		9	
9	entirety of Title 21, which covers food,		Q. Have done that. Is that right?
10	drugs, and cosmetics.	10	A. Yeah, that's correct.
11	Q. Do all fragrance chemicals in	11	Q. Why, then, is if a fragrance
12	the United States need to be listed in Code	12	chemical is not listed in CIR, why does that
13	of Federal Regulations, Title 21?	13	present a regulatory concern?
14	A. No.	14	A. Because some of the chemicals
15	MS. O'DELL: Object to the form.	15	are not fragrances.
16	BY MR. ZELLERS:	16	Q. Do you identify which chemicals
17	Q. Why does not being listed in CFR	17	are not fragrances in your report?
18	Title 21 present a regulatory concern?	18	A. Yes.
19	A. It means the FDA has not	19	Q. Take a look at IFRA. You list
20	reviewed the data on it.	20	as an additional reason in Table 6 for
21	Q. One way or the other. Correct?	21	regulatory concern if there is no IFRA and
22	A. Correct.	22	IFRA is International Fragrance Association.
23	Q. Look at strike that.	23	Is that right?
24	You also identify as a	24	MS. O'DELL: Object to the form.
	Page 155		
			Dage 157
_			Page 157
1	regulatory concern if a fragrance chemical is	1	A. International I have the name
2	regulatory concern if a fragrance chemical is not listed by CIR, the Cosmetic Ingredient	2	A. International I have the name of IFRA in my report. I think you got it
2 3	regulatory concern if a fragrance chemical is not listed by CIR, the Cosmetic Ingredient Review. Is that right?	2	A. International I have the name of IFRA in my report. I think you got it right. International Fragrance is it
2 3 4	regulatory concern if a fragrance chemical is not listed by CIR, the Cosmetic Ingredient Review. Is that right? A. Yes.	2 3 4	A. International I have the name of IFRA in my report. I think you got it right. International Fragrance is it Research Association?
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PageID: 200386 Michael Crowley, Ph.D.

	D 150		D 160
	Page 158		Page 160
1	second paragraph, are those the standards for	1	And if you need to read the document
2	the IFRA expert panel?	2	he's referring to, feel free to do
3	MS. O'DELL: I just object to	3	that.
4	this exhibit to the degree it seems to	4	A. It says reading Item No. 3,
5	be an incomplete copy of whatever is	5	it says, "if the safety assessment does not
6	being presented.	6	support the current use, the panel instructs
7	BY MR. ZELLERS:	7	IFRA to issue a standard."
8	Q. The top of the document,	8	If you're asking me about that,
9	Exhibit 18, says, "about the standards -	9	then that's what it says. That's how they do
10	IFRA, International Fragrance Association,"	10	it.
11	and at the bottom there's a citation to the	11	BY MR. ZELLERS:
12	IFRA website. Is that right?	12	Q. So in your report, when you list
13	A. Yes.	13	"No IFRA standard" next to an ingredient,
14	MS. O'DELL: I stand on my	14	that actually means that IFRA has neither
15	objection of the document itself.	15	restricted nor banned the chemical. Correct?
16	BY MR. ZELLERS:	16	A. Not necessarily. They have
17	Q. In order for IFRA let me	17	it appeared to me that they have published
18	withdraw that.	18	standards on purity, providing specifications
19	To make usage standards, there	19	and usage levels, regardless of whether it's
20	is an independent expert panel that performs	20	restricted or not. They all have all the
21	a safety assessment for and as part of IFRA.	21	fragrance chemicals that I examined have some
22	Correct?	22	sort of usage level.
23	A. Yeah, that's correct.	23	Q. Looking at Deposition
24	Q. And if the safety assessment	24	Exhibit 18
	Page 159		Page 161
1	does not support the current use of the	1	A. Yeah.
2	chemical, the panel instructs IFRA to issue a	2	Q this appears to be from the
3	standard either restricting or banning a	3	IFRA website. Correct?
4	material. Is that correct?	4	A. Yeah.
5	A. That's what it says.	5	Q. This describes how the expert
6	Q. So that means that if the safety		Q. This describes now the expert
1	Q. So that means that if the safety	6	panel is used. Is that right?
7	assessment does support the current use of a		· · · · · · · · · · · · · · · · · · ·
_		6	panel is used. Is that right?
7	assessment does support the current use of a chemical, IFRA does not issue a standard. Correct?	6 7	panel is used. Is that right? MS. O'DELL: Objection. A. Yes. BY MR. ZELLERS:
7	assessment does support the current use of a chemical, IFRA does not issue a standard.	6 7 8	panel is used. Is that right? MS. O'DELL: Objection. A. Yes. BY MR. ZELLERS: Q. The expert panel is made up of
7 8 9 10 11	assessment does support the current use of a chemical, IFRA does not issue a standard. Correct?	6 7 8 9	panel is used. Is that right? MS. O'DELL: Objection. A. Yes. BY MR. ZELLERS: Q. The expert panel is made up of renowned independent experts in the fields of
7 8 9 10	assessment does support the current use of a chemical, IFRA does not issue a standard. Correct? MS. O'DELL: Object to the form.	6 7 8 9 10 11 12	panel is used. Is that right? MS. O'DELL: Objection. A. Yes. BY MR. ZELLERS: Q. The expert panel is made up of
7 8 9 10 11 12 13	assessment does support the current use of a chemical, IFRA does not issue a standard. Correct? MS. O'DELL: Object to the form. A. I'm sorry. Can you repeat the	6 7 8 9 10 11 12 13	panel is used. Is that right? MS. O'DELL: Objection. A. Yes. BY MR. ZELLERS: Q. The expert panel is made up of renowned independent experts in the fields of dermatology, toxicology, pathology, and environmental sciences. Is that right?
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7 8 9 10 11 12 13 14	assessment does support the current use of a chemical, IFRA does not issue a standard. Correct? MS. O'DELL: Object to the form. A. I'm sorry. Can you repeat the question? BY MR. ZELLERS: Q. Sure. A. It's a little confusing.	6 7 8 9 10 11 12 13 14 15	panel is used. Is that right? MS. O'DELL: Objection. A. Yes. BY MR. ZELLERS: Q. The expert panel is made up of renowned independent experts in the fields of dermatology, toxicology, pathology, and environmental sciences. Is that right? MS. O'DELL: Object to form. A. That's what it says.
7 8 9 10 11 12 13 14	assessment does support the current use of a chemical, IFRA does not issue a standard. Correct? MS. O'DELL: Object to the form. A. I'm sorry. Can you repeat the question? BY MR. ZELLERS: Q. Sure.	6 7 8 9 10 11 12 13 14	panel is used. Is that right? MS. O'DELL: Objection. A. Yes. BY MR. ZELLERS: Q. The expert panel is made up of renowned independent experts in the fields of dermatology, toxicology, pathology, and environmental sciences. Is that right? MS. O'DELL: Object to form.
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7 8 9 10 11 12 13 14 15 16 17 18 19 20	assessment does support the current use of a chemical, IFRA does not issue a standard. Correct? MS. O'DELL: Object to the form. A. I'm sorry. Can you repeat the question? BY MR. ZELLERS: Q. Sure. A. It's a little confusing. Q. We started this day today by my telling you not to answer a question you didn't understand. A. Yeah. Q. Do you agree that if the safety	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	panel is used. Is that right? MS. O'DELL: Objection. A. Yes. BY MR. ZELLERS: Q. The expert panel is made up of renowned independent experts in the fields of dermatology, toxicology, pathology, and environmental sciences. Is that right? MS. O'DELL: Object to form. A. That's what it says. BY MR. ZELLERS: Q. Their role is to evaluate the data on a fragrance ingredient to see if it supports the current use level to make sure that there are no risks for the consumer. In
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	assessment does support the current use of a chemical, IFRA does not issue a standard. Correct? MS. O'DELL: Object to the form. A. I'm sorry. Can you repeat the question? BY MR. ZELLERS: Q. Sure. A. It's a little confusing. Q. We started this day today by my telling you not to answer a question you didn't understand. A. Yeah. Q. Do you agree that if the safety assessment by the expert panel supports the	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	panel is used. Is that right? MS. O'DELL: Objection. A. Yes. BY MR. ZELLERS: Q. The expert panel is made up of renowned independent experts in the fields of dermatology, toxicology, pathology, and environmental sciences. Is that right? MS. O'DELL: Object to form. A. That's what it says. BY MR. ZELLERS: Q. Their role is to evaluate the data on a fragrance ingredient to see if it supports the current use level to make sure that there are no risks for the consumer. In cases where the safety assessment does not
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	assessment does support the current use of a chemical, IFRA does not issue a standard. Correct? MS. O'DELL: Object to the form. A. I'm sorry. Can you repeat the question? BY MR. ZELLERS: Q. Sure. A. It's a little confusing. Q. We started this day today by my telling you not to answer a question you didn't understand. A. Yeah. Q. Do you agree that if the safety assessment by the expert panel supports the current use of a chemical, IFRA does not	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	panel is used. Is that right? MS. O'DELL: Objection. A. Yes. BY MR. ZELLERS: Q. The expert panel is made up of renowned independent experts in the fields of dermatology, toxicology, pathology, and environmental sciences. Is that right? MS. O'DELL: Object to form. A. That's what it says. BY MR. ZELLERS: Q. Their role is to evaluate the data on a fragrance ingredient to see if it supports the current use level to make sure that there are no risks for the consumer. In cases where the safety assessment does not support the current use, the panel then

PageID: 200387 Michael Crowley, Ph.D.

	Page 162		Page 164
1	read that correctly?	1	conjunction with other materials. Is that
2	A. I believe so.	2	right?
3	Q. And that is your understanding	3	A. Yes.
4	of how the expert panel is used with respect	4	Q. So P means chemicals should not
5	to the IFRA standards.	5	be used as a fragrance ingredient. Correct?
6	A. That's	6	A. Yes.
7	Q. Is that correct?	7	Q. R means that IFRA has set a
8	A. Yes.	8	limit as to how much of an ingredient should
9	Q. I'm going to ask you about some	9	be used. Is that right?
10	of the chemicals that you identify in	10	A. Yes.
11	Tables 6 and 15 as a regulatory concern.	11	Q. Turn to 163, which is on Page 9
12	No. 1, balsam Peru. Do you see	12	of Deposition Exhibit 19. Do you see that?
13	that?	13	A. No. There's ten pages here, and
14	A. Yes.	14	they're numbered 1 through 10.
15	Q. Myroxylon pereirae oil, or	15	Q. Go to Page 9.
16	balsam Peru, was on a list of ingredients	16	A. Oh. Okay.
17	that you reviewed. Is that right?	17	Q. Entry 163 lists Peru balsam
18	A. Yes.	18	crude as prohibited. Is that right?
19	Q. That is one of the ingredient	19	A. Yes.
20	one of the ingredients that you say is not in	20	Q. The next line, Entry 164, it
21	regulatory compliance. Is that right?	21	lists Peru balsam extracts and distillates as
22	A. Yes.	22	restricted. Is that right?
23	Q. You claim that IFRA prohibits	23	A. Yes.
24	its use as a fragrance. Is that right?	24	Q. Restricted means that IFRA has
	D 1C1		
	Page 163		Page 165
1	A. That's what I found.	1	Page 165 set a level for safe use. Correct?
1 2	A. That's what I found.Q. Take a look at the Index of IFRA	1 2	set a level for safe use. Correct? A. Restricted means the material
	A. That's what I found.		set a level for safe use. Correct? A. Restricted means the material should be limited quantitatively. That's the
2	A. That's what I found. Q. Take a look at the Index of IFRA Standards, which we will mark as Deposition Exhibit 19.	2	set a level for safe use. Correct? A. Restricted means the material should be limited quantitatively. That's the argument. You've read that to me, and that's
2	A. That's what I found. Q. Take a look at the Index of IFRA Standards, which we will mark as Deposition Exhibit 19. (Exhibit No. 19 marked)	2 3	set a level for safe use. Correct? A. Restricted means the material should be limited quantitatively. That's the argument. You've read that to me, and that's right there on your own document.
2 3 4 5 6	A. That's what I found. Q. Take a look at the Index of IFRA Standards, which we will mark as Deposition Exhibit 19. (Exhibit No. 19 marked) BY MR. ZELLERS:	2 3 4 5 6	set a level for safe use. Correct? A. Restricted means the material should be limited quantitatively. That's the argument. You've read that to me, and that's right there on your own document. Q. Exactly. So there is a limit in
2 3 4 5	A. That's what I found. Q. Take a look at the Index of IFRA Standards, which we will mark as Deposition Exhibit 19. (Exhibit No. 19 marked) BY MR. ZELLERS: Q. Are you familiar, generally,	2 3 4 5	set a level for safe use. Correct? A. Restricted means the material should be limited quantitatively. That's the argument. You've read that to me, and that's right there on your own document. Q. Exactly. So there is a limit in terms of what a level would be for safe use.
2 3 4 5 6 7 8	A. That's what I found. Q. Take a look at the Index of IFRA Standards, which we will mark as Deposition Exhibit 19. (Exhibit No. 19 marked) BY MR. ZELLERS: Q. Are you familiar, generally, with these standards?	2 3 4 5 6 7 8	set a level for safe use. Correct? A. Restricted means the material should be limited quantitatively. That's the argument. You've read that to me, and that's right there on your own document. Q. Exactly. So there is a limit in terms of what a level would be for safe use. Correct?
2 3 4 5 6 7 8	A. That's what I found. Q. Take a look at the Index of IFRA Standards, which we will mark as Deposition Exhibit 19. (Exhibit No. 19 marked) BY MR. ZELLERS: Q. Are you familiar, generally, with these standards? A. Yes.	2 3 4 5 6 7 8	set a level for safe use. Correct? A. Restricted means the material should be limited quantitatively. That's the argument. You've read that to me, and that's right there on your own document. Q. Exactly. So there is a limit in terms of what a level would be for safe use. Correct? A. You're adding words to the
2 3 4 5 6 7 8 9	A. That's what I found. Q. Take a look at the Index of IFRA Standards, which we will mark as Deposition Exhibit 19. (Exhibit No. 19 marked) BY MR. ZELLERS: Q. Are you familiar, generally, with these standards? A. Yes. Q. The IFRA recommendations are	2 3 4 5 6 7 8 9	set a level for safe use. Correct? A. Restricted means the material should be limited quantitatively. That's the argument. You've read that to me, and that's right there on your own document. Q. Exactly. So there is a limit in terms of what a level would be for safe use. Correct? A. You're adding words to the definition of what R means. It says, "The
2 3 4 5 6 7 8 9 10	A. That's what I found. Q. Take a look at the Index of IFRA Standards, which we will mark as Deposition Exhibit 19. (Exhibit No. 19 marked) BY MR. ZELLERS: Q. Are you familiar, generally, with these standards? A. Yes. Q. The IFRA recommendations are grouped into three categories; P for	2 3 4 5 6 7 8 9 10	set a level for safe use. Correct? A. Restricted means the material should be limited quantitatively. That's the argument. You've read that to me, and that's right there on your own document. Q. Exactly. So there is a limit in terms of what a level would be for safe use. Correct? A. You're adding words to the definition of what R means. It says, "The use of the material should be limited
2 3 4 5 6 7 8 9 10 11 12	A. That's what I found. Q. Take a look at the Index of IFRA Standards, which we will mark as Deposition Exhibit 19. (Exhibit No. 19 marked) BY MR. ZELLERS: Q. Are you familiar, generally, with these standards? A. Yes. Q. The IFRA recommendations are grouped into three categories; P for prohibited, R for restricted, and S for	2 3 4 5 6 7 8 9 10 11 12	set a level for safe use. Correct? A. Restricted means the material should be limited quantitatively. That's the argument. You've read that to me, and that's right there on your own document. Q. Exactly. So there is a limit in terms of what a level would be for safe use. Correct? A. You're adding words to the definition of what R means. It says, "The use of the material should be limited quantitatively." I don't hear the words or
2 3 4 5 6 7 8 9 10 11 12 13	A. That's what I found. Q. Take a look at the Index of IFRA Standards, which we will mark as Deposition Exhibit 19. (Exhibit No. 19 marked) BY MR. ZELLERS: Q. Are you familiar, generally, with these standards? A. Yes. Q. The IFRA recommendations are grouped into three categories; P for prohibited, R for restricted, and S for specified. Is that right?	2 3 4 5 6 7 8 9 10 11 12	set a level for safe use. Correct? A. Restricted means the material should be limited quantitatively. That's the argument. You've read that to me, and that's right there on your own document. Q. Exactly. So there is a limit in terms of what a level would be for safe use. Correct? A. You're adding words to the definition of what R means. It says, "The use of the material should be limited quantitatively." I don't hear the words or see the words "safe use" there. So you're
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2 3 4 5 6 7 8 9 10 11 12 13 14	A. That's what I found. Q. Take a look at the Index of IFRA Standards, which we will mark as Deposition Exhibit 19. (Exhibit No. 19 marked) BY MR. ZELLERS: Q. Are you familiar, generally, with these standards? A. Yes. Q. The IFRA recommendations are grouped into three categories; P for prohibited, R for restricted, and S for specified. Is that right? A. Yes. Q. Prohibited is material should	2 3 4 5 6 7 8 9 10 11 12 13 14	set a level for safe use. Correct? A. Restricted means the material should be limited quantitatively. That's the argument. You've read that to me, and that's right there on your own document. Q. Exactly. So there is a limit in terms of what a level would be for safe use. Correct? A. You're adding words to the definition of what R means. It says, "The use of the material should be limited quantitatively." I don't hear the words or see the words "safe use" there. So you're mischaracterizing what R means. Q. R means that up to a certain
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	A. That's what I found. Q. Take a look at the Index of IFRA Standards, which we will mark as Deposition Exhibit 19. (Exhibit No. 19 marked) BY MR. ZELLERS: Q. Are you familiar, generally, with these standards? A. Yes. Q. The IFRA recommendations are grouped into three categories; P for prohibited, R for restricted, and S for specified. Is that right? A. Yes. Q. Prohibited is material should not be used as a fragrance ingredient. Is	2 3 4 5 6 7 8 9 10 11 12 13 14 15	set a level for safe use. Correct? A. Restricted means the material should be limited quantitatively. That's the argument. You've read that to me, and that's right there on your own document. Q. Exactly. So there is a limit in terms of what a level would be for safe use. Correct? A. You're adding words to the definition of what R means. It says, "The use of the material should be limited quantitatively." I don't hear the words or see the words "safe use" there. So you're mischaracterizing what R means. Q. R means that up to a certain limit, it is acceptable to use the chemical
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	A. That's what I found. Q. Take a look at the Index of IFRA Standards, which we will mark as Deposition Exhibit 19. (Exhibit No. 19 marked) BY MR. ZELLERS: Q. Are you familiar, generally, with these standards? A. Yes. Q. The IFRA recommendations are grouped into three categories; P for prohibited, R for restricted, and S for specified. Is that right? A. Yes. Q. Prohibited is material should not be used as a fragrance ingredient. Is that right?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	set a level for safe use. Correct? A. Restricted means the material should be limited quantitatively. That's the argument. You've read that to me, and that's right there on your own document. Q. Exactly. So there is a limit in terms of what a level would be for safe use. Correct? A. You're adding words to the definition of what R means. It says, "The use of the material should be limited quantitatively." I don't hear the words or see the words "safe use" there. So you're mischaracterizing what R means. Q. R means that up to a certain limit, it is acceptable to use the chemical according to IFRA?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. That's what I found. Q. Take a look at the Index of IFRA Standards, which we will mark as Deposition Exhibit 19. (Exhibit No. 19 marked) BY MR. ZELLERS: Q. Are you familiar, generally, with these standards? A. Yes. Q. The IFRA recommendations are grouped into three categories; P for prohibited, R for restricted, and S for specified. Is that right? A. Yes. Q. Prohibited is material should not be used as a fragrance ingredient. Is that right? A. That's what it says, yes.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	set a level for safe use. Correct? A. Restricted means the material should be limited quantitatively. That's the argument. You've read that to me, and that's right there on your own document. Q. Exactly. So there is a limit in terms of what a level would be for safe use. Correct? A. You're adding words to the definition of what R means. It says, "The use of the material should be limited quantitatively." I don't hear the words or see the words "safe use" there. So you're mischaracterizing what R means. Q. R means that up to a certain limit, it is acceptable to use the chemical according to IFRA? A. That's correct.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. That's what I found. Q. Take a look at the Index of IFRA Standards, which we will mark as Deposition Exhibit 19. (Exhibit No. 19 marked) BY MR. ZELLERS: Q. Are you familiar, generally, with these standards? A. Yes. Q. The IFRA recommendations are grouped into three categories; P for prohibited, R for restricted, and S for specified. Is that right? A. Yes. Q. Prohibited is material should not be used as a fragrance ingredient. Is that right? A. That's what it says, yes. Q. R, the use of the material	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	set a level for safe use. Correct? A. Restricted means the material should be limited quantitatively. That's the argument. You've read that to me, and that's right there on your own document. Q. Exactly. So there is a limit in terms of what a level would be for safe use. Correct? A. You're adding words to the definition of what R means. It says, "The use of the material should be limited quantitatively." I don't hear the words or see the words "safe use" there. So you're mischaracterizing what R means. Q. R means that up to a certain limit, it is acceptable to use the chemical according to IFRA? A. That's correct. Q. All right. Do you agree or do
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	A. That's what I found. Q. Take a look at the Index of IFRA Standards, which we will mark as Deposition Exhibit 19. (Exhibit No. 19 marked) BY MR. ZELLERS: Q. Are you familiar, generally, with these standards? A. Yes. Q. The IFRA recommendations are grouped into three categories; P for prohibited, R for restricted, and S for specified. Is that right? A. Yes. Q. Prohibited is material should not be used as a fragrance ingredient. Is that right? A. That's what it says, yes. Q. R, the use of the material should be limited quantitatively?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	set a level for safe use. Correct? A. Restricted means the material should be limited quantitatively. That's the argument. You've read that to me, and that's right there on your own document. Q. Exactly. So there is a limit in terms of what a level would be for safe use. Correct? A. You're adding words to the definition of what R means. It says, "The use of the material should be limited quantitatively." I don't hear the words or see the words "safe use" there. So you're mischaracterizing what R means. Q. R means that up to a certain limit, it is acceptable to use the chemical according to IFRA? A. That's correct. Q. All right. Do you agree or do you know if balsam Peru oil refers to the
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. That's what I found. Q. Take a look at the Index of IFRA Standards, which we will mark as Deposition Exhibit 19. (Exhibit No. 19 marked) BY MR. ZELLERS: Q. Are you familiar, generally, with these standards? A. Yes. Q. The IFRA recommendations are grouped into three categories; P for prohibited, R for restricted, and S for specified. Is that right? A. Yes. Q. Prohibited is material should not be used as a fragrance ingredient. Is that right? A. That's what it says, yes. Q. R, the use of the material should be limited quantitatively? A. Yes.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	set a level for safe use. Correct? A. Restricted means the material should be limited quantitatively. That's the argument. You've read that to me, and that's right there on your own document. Q. Exactly. So there is a limit in terms of what a level would be for safe use. Correct? A. You're adding words to the definition of what R means. It says, "The use of the material should be limited quantitatively." I don't hear the words or see the words "safe use" there. So you're mischaracterizing what R means. Q. R means that up to a certain limit, it is acceptable to use the chemical according to IFRA? A. That's correct. Q. All right. Do you agree or do you know if balsam Peru oil refers to the extract or distillate?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. That's what I found. Q. Take a look at the Index of IFRA Standards, which we will mark as Deposition Exhibit 19. (Exhibit No. 19 marked) BY MR. ZELLERS: Q. Are you familiar, generally, with these standards? A. Yes. Q. The IFRA recommendations are grouped into three categories; P for prohibited, R for restricted, and S for specified. Is that right? A. Yes. Q. Prohibited is material should not be used as a fragrance ingredient. Is that right? A. That's what it says, yes. Q. R, the use of the material should be limited quantitatively? A. Yes. Q. S for specified, the material	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	set a level for safe use. Correct? A. Restricted means the material should be limited quantitatively. That's the argument. You've read that to me, and that's right there on your own document. Q. Exactly. So there is a limit in terms of what a level would be for safe use. Correct? A. You're adding words to the definition of what R means. It says, "The use of the material should be limited quantitatively." I don't hear the words or see the words "safe use" there. So you're mischaracterizing what R means. Q. R means that up to a certain limit, it is acceptable to use the chemical according to IFRA? A. That's correct. Q. All right. Do you agree or do you know if balsam Peru oil refers to the extract or distillate? MS. O'DELL: Object to the form.
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	D 166		D 160
	Page 166		Page 168
1	me ask a better question.	1	A. Yes.
2	Balsam Peru oil refers to the	2	Q. The ingredient that you
3	extract or distillate. Is that right?	3	reference in your report is Myroxylon
4	A. They both have the same CAS	4	pereirae oil or balsam Peru oil. Correct?
5	number. Interesting. I want to go to my	5	A. Yep.
6	report and look and see what I wrote, if you	6	Q. That is listed by IFRA in its
7	don't mind, and that's going to take me a	7	standards as a Peru balsam extract and
8	moment to get there. Let me pull it up on	8	distillate. Is that right?
9	the computer. That would be faster.	9	A. Yes.
10	Q. Well, here. I can help you, I	10	Q. If we look at the IFRA standard,
11	think. Let me give you a document, and if	11	Exhibit 19, and we go back to Page 9 of 10,
12	you need to look at something else, you can	12	Entry 164, Peru balsam extract and distillate
13	look at something else.	13	is a restricted but not prohibited item. Is
14	MS. O'DELL: Yeah. Feel free to	14	that right?
15	keep	15	A. That's what it says.
16	THE WITNESS: I'm going to,	16	Q. You do not know the level or
17	yeah.	17	amount or concentration of Peru balsam
18	MS. O'DELL: Keep reviewing what	18	extract and distillate in the baby powder or
19	you'd like to review.	19	Shower to Shower powder. Is that correct?
20	A. I will tell you what I relied	20	A. I do not
21	upon.	21	MS. O'DELL: Object to the form.
22	BY MR. ZELLERS:	22	A. I do not know the amount.
23	Q. Well, my question isn't what you	23	BY MR. ZELLERS:
24	relied upon. My question is: Do you agree	24	Q. Take a look at Table 6. You
	Tenta apeni 113, questien ist. De yeu agree		Q. 1410 # 100H #0 140H 01 10H
	Page 167		Page 169
1	Page 167 that the substance that the fragrance	1	Page 169 list a fragrance chemical benzene, ethenyl
1 2		1 2	
	that the substance that the fragrance		list a fragrance chemical benzene, ethenyl
2	that the substance that the fragrance chemical that you identified is not	2	list a fragrance chemical benzene, ethenyl A. Uh-huh.
2	that the substance that the fragrance chemical that you identified is not prohibited by IFRA?	2 3	list a fragrance chemical benzene, ethenyl A. Uh-huh. Q. Is that "yes"?
2 3 4	that the substance that the fragrance chemical that you identified is not prohibited by IFRA? MS. O'DELL: Object to the form.	2 3 4	list a fragrance chemical benzene, ethenyl A. Uh-huh. Q. Is that "yes"? A. Yes.
2 3 4 5	that the substance that the fragrance chemical that you identified is not prohibited by IFRA? MS. O'DELL: Object to the form. BY MR. ZELLERS:	2 3 4 5	list a fragrance chemical benzene, ethenyl A. Uh-huh. Q. Is that "yes"? A. Yes. Q. You claim in your report,
2 3 4 5 6	that the substance that the fragrance chemical that you identified is not prohibited by IFRA? MS. O'DELL: Object to the form. BY MR. ZELLERS: Q. And I think I can make it easy	2 3 4 5 6	list a fragrance chemical benzene, ethenyl A. Uh-huh. Q. Is that "yes"? A. Yes. Q. You claim in your report, Table 6, that benzene, ethenyl- is not
2 3 4 5 6 7	that the substance that the fragrance chemical that you identified is not prohibited by IFRA? MS. O'DELL: Object to the form. BY MR. ZELLERS: Q. And I think I can make it easy for you.	2 3 4 5 6 7	list a fragrance chemical benzene, ethenyl A. Uh-huh. Q. Is that "yes"? A. Yes. Q. You claim in your report, Table 6, that benzene, ethenyl- is not permitted for flavor or fragrance use. Is
2 3 4 5 6 7 8	that the substance that the fragrance chemical that you identified is not prohibited by IFRA? MS. O'DELL: Object to the form. BY MR. ZELLERS: Q. And I think I can make it easy for you. A. So the source I relied upon said	2 3 4 5 6 7 8	list a fragrance chemical benzene, ethenyl A. Uh-huh. Q. Is that "yes"? A. Yes. Q. You claim in your report, Table 6, that benzene, ethenyl- is not permitted for flavor or fragrance use. Is that right? A. That's correct.
2 3 4 5 6 7 8 9	that the substance that the fragrance chemical that you identified is not prohibited by IFRA? MS. O'DELL: Object to the form. BY MR. ZELLERS: Q. And I think I can make it easy for you. A. So the source I relied upon said both resins, essential oils, and that was	2 3 4 5 6 7 8	list a fragrance chemical benzene, ethenyl A. Uh-huh. Q. Is that "yes"? A. Yes. Q. You claim in your report, Table 6, that benzene, ethenyl- is not permitted for flavor or fragrance use. Is that right?
2 3 4 5 6 7 8 9	that the substance that the fragrance chemical that you identified is not prohibited by IFRA? MS. O'DELL: Object to the form. BY MR. ZELLERS: Q. And I think I can make it easy for you. A. So the source I relied upon said both resins, essential oils, and that was TSCA.	2 3 4 5 6 7 8 9	list a fragrance chemical benzene, ethenyl A. Uh-huh. Q. Is that "yes"? A. Yes. Q. You claim in your report, Table 6, that benzene, ethenyl- is not permitted for flavor or fragrance use. Is that right? A. That's correct. Q. What is that opinion based on? A. FDA recently delisted it.
2 3 4 5 6 7 8 9 10	that the substance that the fragrance chemical that you identified is not prohibited by IFRA? MS. O'DELL: Object to the form. BY MR. ZELLERS: Q. And I think I can make it easy for you. A. So the source I relied upon said both resins, essential oils, and that was TSCA. (Exhibit No. 20 marked)	2 3 4 5 6 7 8 9 10	list a fragrance chemical benzene, ethenyl A. Uh-huh. Q. Is that "yes"? A. Yes. Q. You claim in your report, Table 6, that benzene, ethenyl- is not permitted for flavor or fragrance use. Is that right? A. That's correct. Q. What is that opinion based on? A. FDA recently delisted it. Q. Isn't it true the FDA only
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2 3 4 5 6 7 8 9 10 11 12 13	that the substance that the fragrance chemical that you identified is not prohibited by IFRA? MS. O'DELL: Object to the form. BY MR. ZELLERS: Q. And I think I can make it easy for you. A. So the source I relied upon said both resins, essential oils, and that was TSCA. (Exhibit No. 20 marked) BY MR. ZELLERS: Q. Deposition Exhibit 20 MS. O'DELL: Are you referring to a particular page in your report?	2 3 4 5 6 7 8 9 10 11 12 13 14	list a fragrance chemical benzene, ethenyl A. Uh-huh. Q. Is that "yes"? A. Yes. Q. You claim in your report, Table 6, that benzene, ethenyl- is not permitted for flavor or fragrance use. Is that right? A. That's correct. Q. What is that opinion based on? A. FDA recently delisted it. Q. Isn't it true the FDA only removed it from its list of approved flavorings because companies stopped using it as a flavoring, but it is not banned as a
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	that the substance that the fragrance chemical that you identified is not prohibited by IFRA? MS. O'DELL: Object to the form. BY MR. ZELLERS: Q. And I think I can make it easy for you. A. So the source I relied upon said both resins, essential oils, and that was TSCA. (Exhibit No. 20 marked) BY MR. ZELLERS: Q. Deposition Exhibit 20 MS. O'DELL: Are you referring to a particular page in your report? A. It's on Page 152. BY MR. ZELLERS: Q. Deposition Exhibit 20 is the IFRA standard	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	list a fragrance chemical benzene, ethenyl A. Uh-huh. Q. Is that "yes"? A. Yes. Q. You claim in your report, Table 6, that benzene, ethenyl- is not permitted for flavor or fragrance use. Is that right? A. That's correct. Q. What is that opinion based on? A. FDA recently delisted it. Q. Isn't it true the FDA only removed it from its list of approved flavorings because companies stopped using it as a flavoring, but it is not banned as a fragrance? MS. O'DELL: Object to the form. A. To the best of my knowledge I mean, I read the same, probably, report that
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	that the substance that the fragrance chemical that you identified is not prohibited by IFRA? MS. O'DELL: Object to the form. BY MR. ZELLERS: Q. And I think I can make it easy for you. A. So the source I relied upon said both resins, essential oils, and that was TSCA. (Exhibit No. 20 marked) BY MR. ZELLERS: Q. Deposition Exhibit 20 MS. O'DELL: Are you referring to a particular page in your report? A. It's on Page 152. BY MR. ZELLERS: Q. Deposition Exhibit 20 is the IFRA standard A. And that is I did look at that, yeah.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	list a fragrance chemical benzene, ethenyl A. Uh-huh. Q. Is that "yes"? A. Yes. Q. You claim in your report, Table 6, that benzene, ethenyl- is not permitted for flavor or fragrance use. Is that right? A. That's correct. Q. What is that opinion based on? A. FDA recently delisted it. Q. Isn't it true the FDA only removed it from its list of approved flavorings because companies stopped using it as a flavoring, but it is not banned as a fragrance? MS. O'DELL: Object to the form. A. To the best of my knowledge I mean, I read the same, probably, report that you did when FDA removed it. I don't believe that it's allowed to be used as a fragrance.
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	that the substance that the fragrance chemical that you identified is not prohibited by IFRA? MS. O'DELL: Object to the form. BY MR. ZELLERS: Q. And I think I can make it easy for you. A. So the source I relied upon said both resins, essential oils, and that was TSCA. (Exhibit No. 20 marked) BY MR. ZELLERS: Q. Deposition Exhibit 20 MS. O'DELL: Are you referring to a particular page in your report? A. It's on Page 152. BY MR. ZELLERS: Q. Deposition Exhibit 20 is the IFRA standard A. And that is I did look at that, yeah.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	list a fragrance chemical benzene, ethenyl- A. Uh-huh. Q. Is that "yes"? A. Yes. Q. You claim in your report, Table 6, that benzene, ethenyl- is not permitted for flavor or fragrance use. Is that right? A. That's correct. Q. What is that opinion based on? A. FDA recently delisted it. Q. Isn't it true the FDA only removed it from its list of approved flavorings because companies stopped using it as a flavoring, but it is not banned as a fragrance? MS. O'DELL: Object to the form. A. To the best of my knowledge I mean, I read the same, probably, report that you did when FDA removed it. I don't believe that it's allowed to be used as a fragrance.

PageID: 200389
Michael Crowley, Ph.D.

		1	
	Page 170		Page 172
1	Peru balsam crude, is listed as prohibited,	1	crude is the same exact CAS number as the
2	and the synonyms are the same my how do	2	oil. Do you see that? So do you now
3	you say it? Myroxylon pereirae?	3	understand how I drew my conclusion?
4	BY MR. ZELLERS:	4	BY MR. ZELLERS:
5	Q. That's absolutely not true, is	5	Q. I'm not yes. I'm not all
6	it?	6	I care about is that we now have clarified
7	A. I'm looking at it right here.	7	that the fragrance chemical in the baby
8	Q. All right. Then let's mark as	8	powder and Shower to Shower powder is the
9	Deposition Exhibit	9	Peru balsam extract and distillate. Correct?
10	A. It's from the 42nd amendment.	10	MS. O'DELL: Object to the form.
11	Q. And it's your testimony under	11	A. I'll take your word for it.
12	oath that Peru balsam crude is the same as	12	BY MR. ZELLERS:
13	Myroxylon pereirae oil? Is that your	13	Q. There is a
14	testimony under oath?	14	MS. O'DELL: Object to the form.
15	A. No. That's what I'm telling you	15	BY MR. ZELLERS:
16	I drew the conclusion from. I relied upon	16	Q. There is a separate substance,
17	that.	17	which is the Peru balsam crude, which is
18	Q. And what you know is that Peru	18	described in IFRA standard that we've marked
19	balsam crude is not the ingredient that is in	19	as Exhibit 21, and that is the prohibited
20	the baby powder or Shower to Shower powder.	20	substance. Correct?
21	Correct?	21	A. Yeah, and they're both listed
22	MS. O'DELL: Object to the form.	22	Myroxylon pereirae Klotsch. I mean, those
23	A. I don't know that.	23	three words appear on both. They have the
24		24	same CAS number. So if what is being used in
	Page 171		Page 173
1	BY MR. ZELLERS:	1	the baby powder is the restricted material
2	Q. Let me help you.		J 1
		2	instead of the prohibited material, then I'll
3	A. Let me and let me point you	2 3	instead of the prohibited material, then I'll be happy to update my report.
4	A. Let me and let me point you to what I'm looking at, because it also		instead of the prohibited material, then I'll be happy to update my report. Q. Take a look, then so let's go
4 5	A. Let me and let me point you to what I'm looking at, because it also describes it exactly as it was described in	3	instead of the prohibited material, then I'll be happy to update my report. Q. Take a look, then so let's go back to my question about benzene, ethenyl-
4 5 6	A. Let me and let me point you to what I'm looking at, because it also describes it exactly as it was described in what I was given, and it says it's	3 4 5 6	instead of the prohibited material, then I'll be happy to update my report. Q. Take a look, then so let's go back to my question about benzene, ethenylfrom your report at Table 6, Page 18, and
4 5 6 7	A. Let me and let me point you to what I'm looking at, because it also describes it exactly as it was described in what I was given, and it says it's prohibited. Balsam oil Peru balsam Peru,	3 4 5 6 7	instead of the prohibited material, then I'll be happy to update my report. Q. Take a look, then so let's go back to my question about benzene, ethenylfrom your report at Table 6, Page 18, and specifically look at Exhibit
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4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. Let me and let me point you to what I'm looking at, because it also describes it exactly as it was described in what I was given, and it says it's prohibited. Balsam oil Peru balsam Peru, Myroxylon pereirae balsam Peru oil. (Exhibit No. 21 marked) BY MR. ZELLERS: Q. Okay. Deposition Exhibit 21 is the IFRA standard for Peru balsam crude. Is that right? A. Yes. Q. Peru balsam crude is they give a synonym of exudation of Myroxylon pereirae Klotsch. Is that right? A. Yeah, that's what it says right there. Q. Exudation is different than a extract and distillate. Correct? MS. O'DELL: Object to the form.	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	instead of the prohibited material, then I'll be happy to update my report. Q. Take a look, then so let's go back to my question about benzene, ethenylfrom your report at Table 6, Page 18, and specifically look at Exhibit MS. O'DELL: Would you mind just saying that chemical again, because I missed it? MR. ZELLERS: Sure. Benzene, ethenyl-, E-T-H-Y MS. O'DELL: I got it. MR. ZELLERS: or maybe E-N-Y-L. MS. O'DELL: Thank you. (Exhibit No. 22 marked) BY MR. ZELLERS: Q. Deposition Exhibit 22, this is the FDA's announcement as to the reason that it was removing benzene, ethenyl- from its list of food additives. Is that right?

	Page 174		Page 176
1		1	
1 2	A. Why don't we call it styrene.	1	fragrance ingredient that is included on the
	It's a little bit easier to pronounce.	2	transparency list is included in the RIFM
3	Q. If we go to the second page of	3	safety assessment program?
4	Exhibit 22, the first paragraph, the reason	4	A. I haven't
5	the FDA gives for removing styrene as a food	5	MS. O'DELL: Object to form.
6	additive is, "In response to a separate food	6	A. Yeah. I haven't examined the
7	additive petition from the Styrene	7	transparency list and checked to see if RIFM
8	Information and Research Center, the FDA is	8	has done a safety assessment on it. So I
9	granting the petition by amending its food	9	cannot opine or answer your question.
10	additive regulations to no longer allow for	10	BY MR. ZELLERS:
11	the use of styrene as a synthetic flavoring	11	Q. If RIFM has done a safety
12	substance and adjuvant because industry has	12	assessment on diethyl phthalate, then it
13	abandoned this use."	13	would be a fragrance. Correct?
14	Is that right?	14	MS. O'DELL: Object to the form.
15	A. I believe that you faithfully	15	A. No.
16	read that.	16	BY MR. ZELLERS:
17	Q. Okay. This statement says	17	Q. Does RIFM well, let me
18	nothing about banning its use as a fragrance.	18	withdraw that.
19	Is that right?	19	You list as a reference an
20	A. That's correct.	20	article on the genotoxicity of phthalate
21	Q. All right. Take a look at your	21	esters. Is that right?
22	report and your reference to diethyl	22	A. Which one are you referring to?
23	phthalate. You identified that as a	23	Q. The Al-Saleh, A-L, hyphen,
24	fragrance chemical with a regulatory concern.	24	S-A-L-E-H article.
	Page 175		Page 177
1	Page 175 Is that right? And I'm looking at Pages 46	1	Page 177 MS. O'DELL: Are you referring
1 2		1 2	
	Is that right? And I'm looking at Pages 46		MS. O'DELL: Are you referring
2	Is that right? And I'm looking at Pages 46 and 47 of your report, Table 15.	2	MS. O'DELL: Are you referring to a particular page in the report?
2	Is that right? And I'm looking at Pages 46 and 47 of your report, Table 15. A. It's not a fragrance chemical.	2	MS. O'DELL: Are you referring to a particular page in the report? MR. ZELLERS: I will. Yeah,
2 3 4	Is that right? And I'm looking at Pages 46 and 47 of your report, Table 15. A. It's not a fragrance chemical. Yeah, it's listed there.	2 3 4	MS. O'DELL: Are you referring to a particular page in the report? MR. ZELLERS: I will. Yeah, Page 66.
2 3 4 5	Is that right? And I'm looking at Pages 46 and 47 of your report, Table 15. A. It's not a fragrance chemical. Yeah, it's listed there. Q. Diethyl phthalate is not a	2 3 4 5	MS. O'DELL: Are you referring to a particular page in the report? MR. ZELLERS: I will. Yeah, Page 66. MS. O'DELL: Okay. Thank you.
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Is that right? And I'm looking at Pages 46 and 47 of your report, Table 15. A. It's not a fragrance chemical. Yeah, it's listed there. Q. Diethyl phthalate is not a fragrance. Is that right? A. That's correct. Q. For that reason, there is no IFRA standard. Is that right? A. That would probably be why the IFRA folks wouldn't create a standard for it. Q. All right. Diethyl phthalate is listed on the IFRA transparency list. Is that right? A. I am not sure. I'd have to check that. Q. Do you agree that each fragrance	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	MS. O'DELL: Are you referring to a particular page in the report? MR. ZELLERS: I will. Yeah, Page 66. MS. O'DELL: Okay. Thank you. Page 66 in the report? THE WITNESS: Yes. It's the first reference. MS. O'DELL: Okay. BY MR. ZELLERS: Q. You're generally familiar with the paper. Correct? A. Yeah. I read read and reviewed it. (Exhibit No. 23 marked) Q. Take a look is Deposition Exhibit 23 that article that you reference in
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Is that right? And I'm looking at Pages 46 and 47 of your report, Table 15. A. It's not a fragrance chemical. Yeah, it's listed there. Q. Diethyl phthalate is not a fragrance. Is that right? A. That's correct. Q. For that reason, there is no IFRA standard. Is that right? A. That would probably be why the IFRA folks wouldn't create a standard for it. Q. All right. Diethyl phthalate is listed on the IFRA transparency list. Is that right? A. I am not sure. I'd have to check that. Q. Do you agree that each fragrance ingredient that is included on the	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	MS. O'DELL: Are you referring to a particular page in the report? MR. ZELLERS: I will. Yeah, Page 66. MS. O'DELL: Okay. Thank you. Page 66 in the report? THE WITNESS: Yes. It's the first reference. MS. O'DELL: Okay. BY MR. ZELLERS: Q. You're generally familiar with the paper. Correct? A. Yeah. I read read and reviewed it. (Exhibit No. 23 marked) Q. Take a look is Deposition Exhibit 23 that article that you reference in your report.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	Is that right? And I'm looking at Pages 46 and 47 of your report, Table 15. A. It's not a fragrance chemical. Yeah, it's listed there. Q. Diethyl phthalate is not a fragrance. Is that right? A. That's correct. Q. For that reason, there is no IFRA standard. Is that right? A. That would probably be why the IFRA folks wouldn't create a standard for it. Q. All right. Diethyl phthalate is listed on the IFRA transparency list. Is that right? A. I am not sure. I'd have to check that. Q. Do you agree that each fragrance ingredient that is included on the transparency list is included in the RIFM	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	MS. O'DELL: Are you referring to a particular page in the report? MR. ZELLERS: I will. Yeah, Page 66. MS. O'DELL: Okay. Thank you. Page 66 in the report? THE WITNESS: Yes. It's the first reference. MS. O'DELL: Okay. BY MR. ZELLERS: Q. You're generally familiar with the paper. Correct? A. Yeah. I read read and reviewed it. (Exhibit No. 23 marked) Q. Take a look is Deposition Exhibit 23 that article that you reference in your report. A. I believe so. Yeah.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Is that right? And I'm looking at Pages 46 and 47 of your report, Table 15. A. It's not a fragrance chemical. Yeah, it's listed there. Q. Diethyl phthalate is not a fragrance. Is that right? A. That's correct. Q. For that reason, there is no IFRA standard. Is that right? A. That would probably be why the IFRA folks wouldn't create a standard for it. Q. All right. Diethyl phthalate is listed on the IFRA transparency list. Is that right? A. I am not sure. I'd have to check that. Q. Do you agree that each fragrance ingredient that is included on the transparency list is included in the RIFM safety assessment program?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	MS. O'DELL: Are you referring to a particular page in the report? MR. ZELLERS: I will. Yeah, Page 66. MS. O'DELL: Okay. Thank you. Page 66 in the report? THE WITNESS: Yes. It's the first reference. MS. O'DELL: Okay. BY MR. ZELLERS: Q. You're generally familiar with the paper. Correct? A. Yeah. I read read and reviewed it. (Exhibit No. 23 marked) Q. Take a look is Deposition Exhibit 23 that article that you reference in your report. A. I believe so. Yeah. Q. Look at the first page in the
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Is that right? And I'm looking at Pages 46 and 47 of your report, Table 15. A. It's not a fragrance chemical. Yeah, it's listed there. Q. Diethyl phthalate is not a fragrance. Is that right? A. That's correct. Q. For that reason, there is no IFRA standard. Is that right? A. That would probably be why the IFRA folks wouldn't create a standard for it. Q. All right. Diethyl phthalate is listed on the IFRA transparency list. Is that right? A. I am not sure. I'd have to check that. Q. Do you agree that each fragrance ingredient that is included on the transparency list is included in the RIFM safety assessment program? MS. O'DELL: Object to form.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	MS. O'DELL: Are you referring to a particular page in the report? MR. ZELLERS: I will. Yeah, Page 66. MS. O'DELL: Okay. Thank you. Page 66 in the report? THE WITNESS: Yes. It's the first reference. MS. O'DELL: Okay. BY MR. ZELLERS: Q. You're generally familiar with the paper. Correct? A. Yeah. I read read and reviewed it. (Exhibit No. 23 marked) Q. Take a look is Deposition Exhibit 23 that article that you reference in your report. A. I believe so. Yeah. Q. Look at the first page in the left column under introduction. Do you see
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Is that right? And I'm looking at Pages 46 and 47 of your report, Table 15. A. It's not a fragrance chemical. Yeah, it's listed there. Q. Diethyl phthalate is not a fragrance. Is that right? A. That's correct. Q. For that reason, there is no IFRA standard. Is that right? A. That would probably be why the IFRA folks wouldn't create a standard for it. Q. All right. Diethyl phthalate is listed on the IFRA transparency list. Is that right? A. I am not sure. I'd have to check that. Q. Do you agree that each fragrance ingredient that is included on the transparency list is included in the RIFM safety assessment program? MS. O'DELL: Object to form. A. I'm sorry. Repeat the question.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	MS. O'DELL: Are you referring to a particular page in the report? MR. ZELLERS: I will. Yeah, Page 66. MS. O'DELL: Okay. Thank you. Page 66 in the report? THE WITNESS: Yes. It's the first reference. MS. O'DELL: Okay. BY MR. ZELLERS: Q. You're generally familiar with the paper. Correct? A. Yeah. I read read and reviewed it. (Exhibit No. 23 marked) Q. Take a look is Deposition Exhibit 23 that article that you reference in your report. A. I believe so. Yeah. Q. Look at the first page in the left column under introduction. Do you see at the very bottom, the last full sentence,
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Is that right? And I'm looking at Pages 46 and 47 of your report, Table 15. A. It's not a fragrance chemical. Yeah, it's listed there. Q. Diethyl phthalate is not a fragrance. Is that right? A. That's correct. Q. For that reason, there is no IFRA standard. Is that right? A. That would probably be why the IFRA folks wouldn't create a standard for it. Q. All right. Diethyl phthalate is listed on the IFRA transparency list. Is that right? A. I am not sure. I'd have to check that. Q. Do you agree that each fragrance ingredient that is included on the transparency list is included in the RIFM safety assessment program? MS. O'DELL: Object to form.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	MS. O'DELL: Are you referring to a particular page in the report? MR. ZELLERS: I will. Yeah, Page 66. MS. O'DELL: Okay. Thank you. Page 66 in the report? THE WITNESS: Yes. It's the first reference. MS. O'DELL: Okay. BY MR. ZELLERS: Q. You're generally familiar with the paper. Correct? A. Yeah. I read read and reviewed it. (Exhibit No. 23 marked) Q. Take a look is Deposition Exhibit 23 that article that you reference in your report. A. I believe so. Yeah. Q. Look at the first page in the left column under introduction. Do you see

PageID: 200391 Michael Crowley, Ph.D.

	Daga 170		Dage 100
	Page 178		Page 180
1	fragrant products such as perfumes,	1	sentence, "The oversight of the U.S. Food and
2	cosmetics, and personal care products"?	2	Drug Administration"
3	Did I read that correctly?	3	A. I'm sorry. Where are you?
4	A. Where were you? I	4	Q. Page 2.
5	Q. I'm sorry.	5	A. Yeah.
6	A. Yeah.	6	Q. Exhibit 23.
7	Q. I thought we were together.	7	A. Yeah.
8	A. Yeah.	8	Q. Second sentence, "The
9	Q. Exhibit 23.	9	oversight"
10	A. Yeah.	10	A. On the left column?
11	Q. Introduction on the right-hand	11	Q. Yes, on the left column.
12	side of the first page.	12	A. First paragraph? Okay. "The
13	A. Yeah.	13	U.S. Food and Drug Administration" okay.
14	Q. The very last sentence. Do you	14	Q. "The oversights of the U.S. Food
15	need me to read it again or	15	and Drug Administration (FDA) claim that DEP
16	A. No.	16	does not pose a risk to human health."
17	Q did I read that correctly?	17	Did I read that correctly?
18	A. Yeah, I believe that you used it	18	A. I think so.
19	faithfully.	19	Q. Going down and skipping one
20	Q. The authors in this article	20	sentence, but the next sentence states, "The
21	indicate that diethyl phthalate is a	21	Cosmetic Ingredient Review (CIR) expert
22	fragrance. Correct?	22	panel, an industry-sponsored organization
23	A. No, they do not.	23	that regularly reviews the safety of
24	Q. Tell me how I'm misreading so	24	cosmetics supported the FDA claim."
	Page 179		Page 181
1	A. It's a solvent.	1	Did I read that correctly?
2	Q. Let's look again at the article	2	A. Yes.
3	that you cited for support. Exhibit 23, last	3	MS. O'DELL: Object to the form
4	sentence under introduction on the first	4	to the extent you left out a portion of
5	page, "PAEs, most commonly diethyl phthalate,	5	that paragraph, but
6	or DEP, are also used as solvents and	6	MR. ZELLERS: What did I
7	fixatives in fragrant products such as	7	leave I left out the cite to the
8	perfumes, cosmetics, and personal care	8	website. Is that right?
9	products."	9	MS. O'DELL: No. Actually, you
10	Did I read it correctly?	10	left out a sentence, but, you know,
11	A. Yes.	11	keep going.
12	Q. And is that your understanding?	12	MR. ZELLERS: I don't believe I
13	A. Yes. It's a solvent, and a	13	left out anything material.
14	solvent and a fragrance are two different	14	BY MR. ZELLERS:
15	things. So phthalate esters, PAEs, and	15	Q. The next sentence, "The CIR
16	diethyl phthalate do not have a fragrant odor	16	panel reaffirmed the safe use of DEP, DMP,
17	associated with them. They are solvents for	17	and DBP in cosmetics in 2005."
18	the fragrances.	18	Is that right?
19	Q. They are used in personal care	19	MS. O'DELL: Object to the form.
20	products. Is that right?	20	A. Yeah, that's what it says.
21	A. That's what it says, yeah.	21	BY MR. ZELLERS:
22	Q. According to the article that	22	Q. Okay. Going to the next
	you have cited and I'm looking at the next	23	paragraph, "The Scientific Committee on
23	you have ched and I in looking at the next		
23	page of the introduction, the second	24	Cosmetics Products and Non-Food Products,

			-
	Page 182		Page 184
1	however, did not recommend restrictions on	1	induced sister chromatid exchanges." Okay?
2	the use of DEP and DMP in cosmetics."	2	"And the NTP program also stated" and this
3	Is that right?	3	is a quote "there was equivocal evidence
4	MS. O'DELL: Objection; form.	4	of carcinogenic activity of diethyl phthalate
5	A. That's what it says. And let's	5	in male and female mice based on increases
6	just get something sorted out, because you	6	increased incidences of hepatocellular
7	can read this to me and cite all these	7	neoplasms, primarily adenomas," so
8	regulatory bodies. Diethyl phthalate is not	8	MR. ZELLERS: Move to strike as
9	approved for vaginal administration, nor did	9	nonresponsive.
10	I find, you know, any safety studies done by	10	A. You asked me about human.
11	any of those bodies that demonstrated that	11	Right?
12	DEP is safe for administration to the vagina.	12	BY MR. ZELLERS:
13	So, you know, earlier you talked	13	Q. Yes.
14	about risk assessments. It seems to me you	14	A. That's the basis for from
15	want to ignore route of administration and	15	which the information I relied upon, so
16	exposure. These are all for cosmetic use,	16	you can pick human, but there's animal data
17	which is topical to the skin. This speaks	17	that suggests this is a problem.
18	nothing to vaginal administration.	18	Q. Just to be clear
19	MR. ZELLERS: Move to strike as	19	MS. O'DELL: Excuse me, sir.
20	nonresponsive.	20	Have you not if you're finished,
21	BY MR. ZELLERS:	21	fine, but if you're not finished, you
22	Q. What evidence are you relying on	22	may finish your answer.
23	to say that this chemical, diethyl phthalate,	23	BY MR. ZELLERS:
24	causes or increases the risk of ovarian	24	Q. Just to be clear, and so we have
			,
	Page 183		Page 185
1	cancer in humans?	1	a clear record, you are referencing animal
2	MS. O'DELL: Object to the form.	2	studies. Correct?
3	A. Let me go to my report.	3	A. Yeah.
4	BY MR. ZELLERS:	4	Q. My question is: Are you aware
5	Q. Well, did you and you heard	5	of any human studies that demonstrate or
6	my question, in humans. Correct? I don't	6	provide data that diethyl phthalate causes
7	need you to read your list of animal studies	7	ovarian cancer in humans?
8	again.	8	A. No, I'm not. And, you know, as
9	MS. O'DELL: He can read	9	I was saying, there's also not any studies
10	whatever he'd like to in response to	10	demonstrating the safety in vaginal
11	your question, Counsel. You know that.	11	administration.
12	So you've asked him a question. It's	12	Q. Let me ask you about a couple
13	pending. He's going to respond to it.	13	more, and then we'll take a break.
14	MR. ZELLERS: And he needs to	14	A. Okay.
	respond to it. That's my question.	15	Q. Citrus Medica Limonum, Pages 18
15	respond to it. That's my question.		=
15 16	MS. O'DELL: You may not like	16	and 19, Table 6. Do you see that?
	• • • • • • • • • • • • • • • • • • • •	16 17	and 19, Table 6. Do you see that? A. There's Citrus Medica Limonum,
16	MS. O'DELL: You may not like		
16 17	MS. O'DELL: You may not like his response, but he's free to respond	17	A. There's Citrus Medica Limonum,
16 17 18	MS. O'DELL: You may not like his response, but he's free to respond to it, so	17 18	A. There's Citrus Medica Limonum, lemon peel oil, yeah.
16 17 18 19	MS. O'DELL: You may not like his response, but he's free to respond to it, so A. RTECS demonstrate you know,	17 18 19	A. There's Citrus Medica Limonum, lemon peel oil, yeah. Q. Yes. And you list that as a
16 17 18 19 20	MS. O'DELL: You may not like his response, but he's free to respond to it, so A. RTECS demonstrate you know, stated not me, RTECS "Diethyl esters	17 18 19 20	A. There's Citrus Medica Limonum, lemon peel oil, yeah. Q. Yes. And you list that as a fragrance with a regulatory concern. Is that
16 17 18 19 20 21	MS. O'DELL: You may not like his response, but he's free to respond to it, so A. RTECS demonstrate you know, stated not me, RTECS "Diethyl esters can cause reproductive and developmental	17 18 19 20 21	A. There's Citrus Medica Limonum, lemon peel oil, yeah. Q. Yes. And you list that as a fragrance with a regulatory concern. Is that right?
16 17 18 19 20 21	MS. O'DELL: You may not like his response, but he's free to respond to it, so A. RTECS demonstrate you know, stated not me, RTECS "Diethyl esters can cause reproductive and developmental toxicity. The NTP program found that in	17 18 19 20 21 22	A. There's Citrus Medica Limonum, lemon peel oil, yeah. Q. Yes. And you list that as a fragrance with a regulatory concern. Is that right? A. Yes.

PageID: 200393 Michael Crowley, Ph.D.

	Page 186		Page 188
1	effects. Is that right?	1	BY MR. ZELLERS:
2	MS. O'DELL: Object to the form.	2	Q. Therefore, the absence of an
3	BY MR. ZELLERS:	3	evaluation by CIR, that fact that there is
4	Q. On Page 11 I'm sorry.	4	not an evaluation by CIR, is not a regulatory
5	Page 37, Table 11.	5	concern in and of itself. Correct?
6	A. Yeah, phototoxicity.	6	MS. O'DELL: Object to the form.
7	Q. Citrus Medica Limonum is lemon	7	A. That's a generalization. So
8	peel oil. Is that right?	8	diethyl phthalate, again, not a fragrance,
9	A. Yes, that's my understanding.	9	there is a CIR on it. Right? Okay. You
10	Q. Citrus Medica Limonum is listed	10	just pointed to the balsam Peru. That's a
11	on the IFRA transparency list. Correct?	11	fragrance. Did CIR have something to say
12	A. I would have to check it.	12	about that?
13	Q. We discussed before that CIR	13	So the absence of something from
14	does not evaluate fragrances. Is that right?	14	CIR doesn't mean that, you know I forgot
15	MS. O'DELL: Object to the form.	15	how you asked your question.
16	A. They do in some cases, but they	16	BY MR. ZELLERS:
17	don't always. That's my understanding.	17	Q. That's all right. The absence
18	BY MR. ZELLERS:	18	may or may not be a regulatory concern? Can
19	Q. Would you agree that the absence	19	we agree on that?
20	of an evaluation by CIR is not a regulatory	20	A. I guess it depends on who
21	concern?	21	MS. O'DELL: Objection; form.
22	A. So, I mean, let's be clear about	22	A on whose product it is.
23	this. When companies engage me to help them	23	BY MR. ZELLERS:
24	build products, they don't want me to take	24	Q. Why would phototoxicity have
	Page 187		Page 189
1	any unnecessary risks. Right?	1	anything to do with peroneal exposure?
2	So, ideally, you use excipients	2	A. Well, I personally don't sun
3	and active ingredients that are listed by the	3	bathe in the nude, but I suppose some people
4	FDA, have a CIR monograph or safety study,	4	do. But sunlight can enter through windows.
5	you know, are listed in the Food Chemical	5	I get your point, taken.
6	Codex, have a full published in a	6	MS. O'DELL: Hey, Mike, we've
7	peer-reviewed journal safety study.	7	been going about Michael, excuse
8	So more often than not, the	8	me we've been going about an hour
9	generally-accepted standard is to go use	9	and 45 minutes, which I think is
10	chemicals that meet all those criteria. So	10	gracious of
11	there's risk associated with using things	11	MR. ZELLERS: If you could give
12	that don't.	12	me five minutes. I just have one I
13	MR. ZELLERS: Move to strike as	13	mean, and if you have to take a break
14	nonresponsive.	14	now, then okay.
15 16	BY MR. ZELLERS:	15 16	MS. O'DELL: I just don't want
16	Q. Try, if you can, to answer my	16	to continue this on it's quite a
17	question.	17	long time we've been going. If you've
18 19	CIR, the Cosmetic Ingredient	18 19	got five minutes, please finish.
20	Review, does not evaluate fragrances. Correct?	20	MR. ZELLERS: Yeah, let's try to finish this section and decide what
21		20	we're going to do.
22	MS. O'DELL: Object to the form, asked and answered.	22	MS. O'DELL: But 12:45, an hour
23	A. Yeah. I answered that	23	and 45 minutes in, it's quite a long
24	previously and said not always.	24	time.
	r 10 mor) mine outer from all may b.		******

PageID: 200394
Michael Crowley, Ph.D.

	Michael Clo		
	Page 190		Page 192
1	MR. ZELLERS: Understood.	1	THE VIDEOGRAPHER: Going off the
2	BY MR. ZELLERS:	2	record, the time is 12:47 p.m.
3	Q. Methyl Hydrogenated Rosinate,	3	(Recess from 12:47 p.m. to
4	you list that as a fragrance chemical with a	4	1:55 p.m.)
5	regulatory concern. Is that right?	5	THE VIDEOGRAPHER: This marks
6	A. It's not a fragrance chemical.	6	the beginning of Disc 3. Back on the
7	It's a chemical.	7	record, the time is 1:55 p.m.
8	Q. So it's your opinion that Methyl	8	BY MR. ZELLERS:
9	Hydrogenated Rosinate is not a fragrance. Is	9	Q. Dr. Crowley, your second opinion
10	that right?	10	is that the fragrance chemicals in baby
11	A. That's correct.	11	powder and Shower to Shower contribute to the
12	Q. Would you agree that Methyl	12	inflammatory properties, toxicity, and
13	Hydrogenated Rosinate is listed on the IFRA	13	potential carcinogenicity of these products.
14	transparency list?	14	Is that right?
15	A. I would have to check.	15	A. Yes.
16	Q. Do you agree that each fragrance	16	Q. In your report, you state that
17	ingredient that is included on the IFRA	17	35 of the fragrance chemicals in baby powder
18	transparency list is included in the RIFM	18	have a safety/toxicology concern. Correct?
19	safety assessment program?	19	A. 35?
20	MS. O'DELL: Object to form.	20	Q. Yes. Page 11.
21	A. I think you asked that of me	21	A. 34.
22	BY MR. ZELLERS:	22	Q. And 12 of the fragrance
23	Q. I did of another chemical	23	chemicals in Shower to Shower have a
24	another ingredient.	24	safety/toxicology concern. Is that right?
	unother ingredient.		salety/toxicology concern. Is that right:
	Page 191		Page 193
1	A. Right. I'm sorry. I thought it	1	A. Yes.
2	was open-ended. You know, like I said, I	2	Q. You define safety/toxicology
3	haven't done that cross-reference, so I would	3	concern as any fragrance chemical that is
4	have to check that.	4	listed on the Registry of Toxic Effects of
5	Q. And the same set of questions	5	Chemical Substances, or the RTECS list, or
6	with respect to the CIR not evaluating	6	has safety in use concerns. Is that right?
7	fragrances and not having an evaluation by	7	MS. O'DELL: Object to the form.
8	CIR is not a regulatory concern, you'd give	8	A. I think I've got a little bit
9	me all the same answers again?	9	broader definition than that. It's really I
10	A. Pretty much, yeah.	10	considered the totality of the evidence, so
11	MS. O'DELL: Object to the form.	11	certainly RTECS or other toxic, you know,
12	A. It depends on who is willing to	12	reports from the literature.
13	take on that risk.	13	BY MR. ZELLERS:
14	BY MR. ZELLERS:	14	Q. You list the fragrance chemicals
15	Q. Last question. Not having an	15	in baby powder, Table 7, that you believe
16	IFRA standard means that IFRA has neither	16	have a safety/toxicology concern. Is that
17	restricted nor banned the chemical. Correct?	17	right?
18	MS. O'DELL: Object to the form.	18	A. Well, I don't believe I'm
19	A. Well, it could also mean they	19	reporting work that someone else has done.
20	haven't done one, that they haven't done a	20	Q. Right.
21	safety assessment.	21	A. Right.
22	MR. ZELLERS: Let's take a	22	Q. As we established earlier, you
23	break.	23	personally did not do the review and
24	THE WITNESS: Okay.	24	analysis. You've gone out and you've googled
1	•	'-	,

	Page 194		Page 196
1	it or you've PubChem'd it to collect that	1	That's a different question than you
2	information?	2	asked before. You're welcome to answer
3	A. Yeah.	3	it.
4	MS. O'DELL: Object to the form.	4	A. Not in humans, but we have
5	Misstates his methodology.	5	in vitro studies and animal studies.
6	A. I gathered the information from	6	BY MR. ZELLERS:
7	a number of sources.	7	Q. Is there any epidemiology
8	BY MR. ZELLERS:	8	substantiating the theory that any of the
9	Q. Is safety/toxicology concern a	9	fragrance chemicals used in baby powder or
10	recognized term in the field of toxicology?	10	Shower to Shower cause cancer in humans?
11	A. I mean, it's a term of art, I	11	MS. O'DELL: Object to the form.
12	think, that, you know, adequately describes	12	A. I think that's the same question
13	what I was asked to do.	13	you just asked, so it's the same answer.
14	Q. I asked you earlier what	14	BY MR. ZELLERS:
15	methodology you followed. The methodology	15	Q. No. Correct?
16	you followed for your second opinion is the	16	MS. O'DELL: Object to the form.
17	methodology you described for us earlier.	17	A. No, that's not my answer. Not
18	Correct?	18	in humans. There are animal and in vitro
19	A. Yes.	19	studies.
20	Q. You are not rendering an opinion	20	BY MR. ZELLERS:
21	that if a fragrance chemical is included in	21	Q. You are not aware of any
22	either Table 7 or Table 16 of your report,	22	epidemiologic studies that establish that any
23	that that means it causes cancer in humans.	23	of the fragrance ingredients that you've
24	Correct?	24	listed out cause cancer in humans. Correct?
	Page 195		- 10F
	rage 175		Page 197
1	MS. O'DELL: Object to the form.	1	MS. O'DELL: Object to the form.
1 2		1 2	
	MS. O'DELL: Object to the form.		MS. O'DELL: Object to the form.
2	MS. O'DELL: Object to the form. A. That's not necessarily true.	2	MS. O'DELL: Object to the form. And if you need to, you're welcome to
2	MS. O'DELL: Object to the form. A. That's not necessarily true. BY MR. ZELLERS:	2 3	MS. O'DELL: Object to the form. And if you need to, you're welcome to look at the real-time if you need to
2 3 4	MS. O'DELL: Object to the form. A. That's not necessarily true. BY MR. ZELLERS: Q. That's not	2 3 4	MS. O'DELL: Object to the form. And if you need to, you're welcome to look at the real-time if you need to look at the question. A. Okay. So that was your last question was not specific to ovarian cancer.
2 3 4 5	MS. O'DELL: Object to the form. A. That's not necessarily true. BY MR. ZELLERS: Q. That's not A. I mean, this isn't a yes or no	2 3 4 5	MS. O'DELL: Object to the form. And if you need to, you're welcome to look at the real-time if you need to look at the question. A. Okay. So that was your last
2 3 4 5 6	MS. O'DELL: Object to the form. A. That's not necessarily true. BY MR. ZELLERS: Q. That's not A. I mean, this isn't a yes or no question. As I understand your question, a	2 3 4 5 6	MS. O'DELL: Object to the form. And if you need to, you're welcome to look at the real-time if you need to look at the question. A. Okay. So that was your last question was not specific to ovarian cancer.
2 3 4 5 6 7	MS. O'DELL: Object to the form. A. That's not necessarily true. BY MR. ZELLERS: Q. That's not A. I mean, this isn't a yes or no question. As I understand your question, a number of these chemicals have validated studies that they are carcinogens. Q. What epidemiologic studies in	2 3 4 5 6 7	MS. O'DELL: Object to the form. And if you need to, you're welcome to look at the real-time if you need to look at the question. A. Okay. So that was your last question was not specific to ovarian cancer. You said cancer in humans. So I'd like to
2 3 4 5 6 7 8	MS. O'DELL: Object to the form. A. That's not necessarily true. BY MR. ZELLERS: Q. That's not A. I mean, this isn't a yes or no question. As I understand your question, a number of these chemicals have validated studies that they are carcinogens. Q. What epidemiologic studies in humans substantiate the theory that the	2 3 4 5 6 7 8	MS. O'DELL: Object to the form. And if you need to, you're welcome to look at the real-time if you need to look at the question. A. Okay. So that was your last question was not specific to ovarian cancer. You said cancer in humans. So I'd like to answer that.
2 3 4 5 6 7 8 9 10	MS. O'DELL: Object to the form. A. That's not necessarily true. BY MR. ZELLERS: Q. That's not A. I mean, this isn't a yes or no question. As I understand your question, a number of these chemicals have validated studies that they are carcinogens. Q. What epidemiologic studies in humans substantiate the theory that the fragrance chemicals included in Table 7 and	2 3 4 5 6 7 8	MS. O'DELL: Object to the form. And if you need to, you're welcome to look at the real-time if you need to look at the question. A. Okay. So that was your last question was not specific to ovarian cancer. You said cancer in humans. So I'd like to answer that. Four chemicals in the baby powder have been identified by the International Agency for Research on Cancer
2 3 4 5 6 7 8 9 10 11	MS. O'DELL: Object to the form. A. That's not necessarily true. BY MR. ZELLERS: Q. That's not A. I mean, this isn't a yes or no question. As I understand your question, a number of these chemicals have validated studies that they are carcinogens. Q. What epidemiologic studies in humans substantiate the theory that the	2 3 4 5 6 7 8 9	MS. O'DELL: Object to the form. And if you need to, you're welcome to look at the real-time if you need to look at the question. A. Okay. So that was your last question was not specific to ovarian cancer. You said cancer in humans. So I'd like to answer that. Four chemicals in the baby powder have been identified by the
2 3 4 5 6 7 8 9 10	MS. O'DELL: Object to the form. A. That's not necessarily true. BY MR. ZELLERS: Q. That's not A. I mean, this isn't a yes or no question. As I understand your question, a number of these chemicals have validated studies that they are carcinogens. Q. What epidemiologic studies in humans substantiate the theory that the fragrance chemicals included in Table 7 and	2 3 4 5 6 7 8 9 10	MS. O'DELL: Object to the form. And if you need to, you're welcome to look at the real-time if you need to look at the question. A. Okay. So that was your last question was not specific to ovarian cancer. You said cancer in humans. So I'd like to answer that. Four chemicals in the baby powder have been identified by the International Agency for Research on Cancer
2 3 4 5 6 7 8 9 10 11 12 13	MS. O'DELL: Object to the form. A. That's not necessarily true. BY MR. ZELLERS: Q. That's not A. I mean, this isn't a yes or no question. As I understand your question, a number of these chemicals have validated studies that they are carcinogens. Q. What epidemiologic studies in humans substantiate the theory that the fragrance chemicals included in Table 7 and Table 16 cause ovarian cancer? A. Well, I read to you some studies previously. You just rephrased your question	2 3 4 5 6 7 8 9 10 11	MS. O'DELL: Object to the form. And if you need to, you're welcome to look at the real-time if you need to look at the question. A. Okay. So that was your last question was not specific to ovarian cancer. You said cancer in humans. So I'd like to answer that. Four chemicals in the baby powder have been identified by the International Agency for Research on Cancer as potential carcinogens. Benzene, ethenyl-,
2 3 4 5 6 7 8 9 10 11 12 13 14	MS. O'DELL: Object to the form. A. That's not necessarily true. BY MR. ZELLERS: Q. That's not A. I mean, this isn't a yes or no question. As I understand your question, a number of these chemicals have validated studies that they are carcinogens. Q. What epidemiologic studies in humans substantiate the theory that the fragrance chemicals included in Table 7 and Table 16 cause ovarian cancer? A. Well, I read to you some studies previously. You just rephrased your question to human studies and ovarian cancer. You	2 3 4 5 6 7 8 9 10 11 12 13	MS. O'DELL: Object to the form. And if you need to, you're welcome to look at the real-time if you need to look at the question. A. Okay. So that was your last question was not specific to ovarian cancer. You said cancer in humans. So I'd like to answer that. Four chemicals in the baby powder have been identified by the International Agency for Research on Cancer as potential carcinogens. Benzene, ethenylalso known as styrene, has been implicated as a reproductive toxicant, neurotoxicant, and has been demonstrated to be a carcinogen both
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	MS. O'DELL: Object to the form. A. That's not necessarily true. BY MR. ZELLERS: Q. That's not A. I mean, this isn't a yes or no question. As I understand your question, a number of these chemicals have validated studies that they are carcinogens. Q. What epidemiologic studies in humans substantiate the theory that the fragrance chemicals included in Table 7 and Table 16 cause ovarian cancer? A. Well, I read to you some studies previously. You just rephrased your question to human studies and ovarian cancer. You know, your question prior to that was not	2 3 4 5 6 7 8 9 10 11 12 13 14	MS. O'DELL: Object to the form. And if you need to, you're welcome to look at the real-time if you need to look at the question. A. Okay. So that was your last question was not specific to ovarian cancer. You said cancer in humans. So I'd like to answer that. Four chemicals in the baby powder have been identified by the International Agency for Research on Cancer as potential carcinogens. Benzene, ethenylalso known as styrene, has been implicated as a reproductive toxicant, neurotoxicant, and has been demonstrated to be a carcinogen both in vivo and in vitro.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	MS. O'DELL: Object to the form. A. That's not necessarily true. BY MR. ZELLERS: Q. That's not A. I mean, this isn't a yes or no question. As I understand your question, a number of these chemicals have validated studies that they are carcinogens. Q. What epidemiologic studies in humans substantiate the theory that the fragrance chemicals included in Table 7 and Table 16 cause ovarian cancer? A. Well, I read to you some studies previously. You just rephrased your question to human studies and ovarian cancer. You know, your question prior to that was not specific to ovarian. It was just cancer.	2 3 4 5 6 7 8 9 10 11 12 13 14 15	MS. O'DELL: Object to the form. And if you need to, you're welcome to look at the real-time if you need to look at the question. A. Okay. So that was your last question was not specific to ovarian cancer. You said cancer in humans. So I'd like to answer that. Four chemicals in the baby powder have been identified by the International Agency for Research on Cancer as potential carcinogens. Benzene, ethenylalso known as styrene, has been implicated as a reproductive toxicant, neurotoxicant, and has been demonstrated to be a carcinogen both
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	MS. O'DELL: Object to the form. A. That's not necessarily true. BY MR. ZELLERS: Q. That's not A. I mean, this isn't a yes or no question. As I understand your question, a number of these chemicals have validated studies that they are carcinogens. Q. What epidemiologic studies in humans substantiate the theory that the fragrance chemicals included in Table 7 and Table 16 cause ovarian cancer? A. Well, I read to you some studies previously. You just rephrased your question to human studies and ovarian cancer. You know, your question prior to that was not specific to ovarian. It was just cancer. Limonene is an IARC potential carcinogen.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	MS. O'DELL: Object to the form. And if you need to, you're welcome to look at the real-time if you need to look at the question. A. Okay. So that was your last question was not specific to ovarian cancer. You said cancer in humans. So I'd like to answer that. Four chemicals in the baby powder have been identified by the International Agency for Research on Cancer as potential carcinogens. Benzene, ethenylalso known as styrene, has been implicated as a reproductive toxicant, neurotoxicant, and has been demonstrated to be a carcinogen both in vivo and in vitro. BY MR. ZELLERS: Q. Is that a human study?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	MS. O'DELL: Object to the form. A. That's not necessarily true. BY MR. ZELLERS: Q. That's not A. I mean, this isn't a yes or no question. As I understand your question, a number of these chemicals have validated studies that they are carcinogens. Q. What epidemiologic studies in humans substantiate the theory that the fragrance chemicals included in Table 7 and Table 16 cause ovarian cancer? A. Well, I read to you some studies previously. You just rephrased your question to human studies and ovarian cancer. You know, your question prior to that was not specific to ovarian. It was just cancer. Limonene is an IARC potential carcinogen. You know, we've talked about styrene.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	MS. O'DELL: Object to the form. And if you need to, you're welcome to look at the real-time if you need to look at the question. A. Okay. So that was your last question was not specific to ovarian cancer. You said cancer in humans. So I'd like to answer that. Four chemicals in the baby powder have been identified by the International Agency for Research on Cancer as potential carcinogens. Benzene, ethenylalso known as styrene, has been implicated as a reproductive toxicant, neurotoxicant, and has been demonstrated to be a carcinogen both in vivo and in vitro. BY MR. ZELLERS: Q. Is that a human study? A. I would have to check the
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	MS. O'DELL: Object to the form. A. That's not necessarily true. BY MR. ZELLERS: Q. That's not A. I mean, this isn't a yes or no question. As I understand your question, a number of these chemicals have validated studies that they are carcinogens. Q. What epidemiologic studies in humans substantiate the theory that the fragrance chemicals included in Table 7 and Table 16 cause ovarian cancer? A. Well, I read to you some studies previously. You just rephrased your question to human studies and ovarian cancer. You know, your question prior to that was not specific to ovarian. It was just cancer. Limonene is an IARC potential carcinogen. You know, we've talked about styrene. Q. And I'm sorry to interrupt you. My question is: Are you aware of any epidemiologic studies that associate those	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	MS. O'DELL: Object to the form. And if you need to, you're welcome to look at the real-time if you need to look at the question. A. Okay. So that was your last question was not specific to ovarian cancer. You said cancer in humans. So I'd like to answer that. Four chemicals in the baby powder have been identified by the International Agency for Research on Cancer as potential carcinogens. Benzene, ethenyl-, also known as styrene, has been implicated as a reproductive toxicant, neurotoxicant, and has been demonstrated to be a carcinogen both in vivo and in vitro. BY MR. ZELLERS: Q. Is that a human study? A. I would have to check the underlying studies. The National Toxicology Program considers styrene to be reasonably
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	MS. O'DELL: Object to the form. A. That's not necessarily true. BY MR. ZELLERS: Q. That's not A. I mean, this isn't a yes or no question. As I understand your question, a number of these chemicals have validated studies that they are carcinogens. Q. What epidemiologic studies in humans substantiate the theory that the fragrance chemicals included in Table 7 and Table 16 cause ovarian cancer? A. Well, I read to you some studies previously. You just rephrased your question to human studies and ovarian cancer. You know, your question prior to that was not specific to ovarian. It was just cancer. Limonene is an IARC potential carcinogen. You know, we've talked about styrene. Q. And I'm sorry to interrupt you. My question is: Are you aware of any epidemiologic studies that associate those fragrances to ovarian cancer in humans?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	MS. O'DELL: Object to the form. And if you need to, you're welcome to look at the real-time if you need to look at the question. A. Okay. So that was your last question was not specific to ovarian cancer. You said cancer in humans. So I'd like to answer that. Four chemicals in the baby powder have been identified by the International Agency for Research on Cancer as potential carcinogens. Benzene, ethenyl-, also known as styrene, has been implicated as a reproductive toxicant, neurotoxicant, and has been demonstrated to be a carcinogen both in vivo and in vitro. BY MR. ZELLERS: Q. Is that a human study? A. I would have to check the underlying studies. The National Toxicology Program considers styrene to be reasonably anticipated to be a human carcinogen. EPA
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	MS. O'DELL: Object to the form. A. That's not necessarily true. BY MR. ZELLERS: Q. That's not A. I mean, this isn't a yes or no question. As I understand your question, a number of these chemicals have validated studies that they are carcinogens. Q. What epidemiologic studies in humans substantiate the theory that the fragrance chemicals included in Table 7 and Table 16 cause ovarian cancer? A. Well, I read to you some studies previously. You just rephrased your question to human studies and ovarian cancer. You know, your question prior to that was not specific to ovarian. It was just cancer. Limonene is an IARC potential carcinogen. You know, we've talked about styrene. Q. And I'm sorry to interrupt you. My question is: Are you aware of any epidemiologic studies that associate those	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	MS. O'DELL: Object to the form. And if you need to, you're welcome to look at the real-time if you need to look at the question. A. Okay. So that was your last question was not specific to ovarian cancer. You said cancer in humans. So I'd like to answer that. Four chemicals in the baby powder have been identified by the International Agency for Research on Cancer as potential carcinogens. Benzene, ethenyl-, also known as styrene, has been implicated as a reproductive toxicant, neurotoxicant, and has been demonstrated to be a carcinogen both in vivo and in vitro. BY MR. ZELLERS: Q. Is that a human study? A. I would have to check the underlying studies. The National Toxicology Program considers styrene to be reasonably

PageID: 200396
Michael Crowley, Ph.D.

	Page 198		Page 200
1	carcinogenic.	1	products present a health risk for women that
2	IARC has also stated that	2	use the products? And by "products," I'm
3	coumarin, eugenol, and d-Limonene are not	3	including baby powder and Shower to Shower.
4	classifiable as to their carcinogenicity.	4	Is that right?
5	Q. We	5	A. Yeah. I believe that peroneal
6	A. The	6	application of the talc products is
7	Q. And I'm sorry. You're referring	7	associated with a higher risk of cancer.
8	to IARC and to its various analyses. Is that	8	Q. You have
9	correct?	9	A. And I believe that the fragrance
10	A. That's correct.	10	chemicals, as they are so called by Johnson &
11	Q. And I'm going to ask you about	11	Johnson that's not my choice of words, but
12	that in a bit.	12	they're chemicals contribute to that.
13	A. Okay.	13	Q. You have not done a full human
14	Q. All right.	14	health risk assessment, correct, as we
15	A. And I haven't answered your	15	discussed earlier today?
16	question with respect to Shower to Shower,	16	A. I
17	but there's also similar verbiage, as you're	17	MS. O'DELL: Object to form.
18	well aware, with respect to Shower to Shower.	18	A. I was unable to do a risk
19	The chemicals there include benzophenone,	19	assessment because I was never provided with
20	which is an IARC Group 2B, coumarin and	20	the composition of the fragrances. So, in
21	eugenol are not classifiable, and musk ketone	21	order to do that, you need that information.
22	has been suspected of being a carcinogen. It	22	It was asked for, and it was never provided.
23	has been classified as a Category 3	23	BY MR. ZELLERS:
24	carcinogen by SCHER, which is the European	24	Q. You have not been able to do a
	Page 199		Page 201
1	folks.	1	dose response analysis. Correct?
2	Q. To be clear and I understand	2	MS. O'DELL: Object to the form.
3	this is a different question, but there are	3	A. Again, I couldn't do it because
4	no epidemiologic studies which substantiate	4	I didn't have the information from J&J, I
5	the theory that the fragrance chemicals that	5	suppose, to enable doing that.
6	you include in either Table 7 or Table 16	6	BY MR. ZELLERS:
7	cause or increase the risk of ovarian cancer	7	Q. What dose of the chemicals
8	in humans. Correct?	8	listed in Table 7 and 16 does a woman receive
9	MS. O'DELL: Object to form.	9	from one application of baby powder in her
10	A. I would have to check that, but,	10	peroneal region?
11	you know, I wasn't asked to consider that,	11	A. It's unknown to me. That
12	SO	12	information was requested and not provided.
13	BY MR. ZELLERS:	13	Q. If I asked you what dose there
	Q. At least as you sit here, you	14	would be for two applications or five or any
14			4
15	are not aware of any. Correct?	15	number, it
15 16	A. I am not aware of an	16	A. I couldn't answer.
15 16 17	A. I am not aware of an epidemiological study substantiating the	16 17	A. I couldn't answer. MS. O'DELL: Object to the form.
15 16 17 18	A. I am not aware of an epidemiological study substantiating the causation of ovarian cancer from the	16 17 18	A. I couldn't answer. MS. O'DELL: Object to the form. BY MR. ZELLERS:
15 16 17 18 19	A. I am not aware of an epidemiological study substantiating the causation of ovarian cancer from the so-called fragrance chemicals. Let's just	16 17 18 19	A. I couldn't answer. MS. O'DELL: Object to the form. BY MR. ZELLERS: Q. Do you have any information or
15 16 17 18 19 20	A. I am not aware of an epidemiological study substantiating the causation of ovarian cancer from the so-called fragrance chemicals. Let's just call them chemicals, because not all of them	16 17 18 19 20	A. I couldn't answer. MS. O'DELL: Object to the form. BY MR. ZELLERS: Q. Do you have any information or are you able to tell me the cumulative dose
15 16 17 18 19 20 21	A. I am not aware of an epidemiological study substantiating the causation of ovarian cancer from the so-called fragrance chemicals. Let's just call them chemicals, because not all of them are fragrances.	16 17 18 19 20 21	A. I couldn't answer. MS. O'DELL: Object to the form. BY MR. ZELLERS: Q. Do you have any information or are you able to tell me the cumulative dose that a woman would receive if she used baby
15 16 17 18 19 20 21 22	A. I am not aware of an epidemiological study substantiating the causation of ovarian cancer from the so-called fragrance chemicals. Let's just call them chemicals, because not all of them are fragrances. Q. You believe that the use of the	16 17 18 19 20 21 22	A. I couldn't answer. MS. O'DELL: Object to the form. BY MR. ZELLERS: Q. Do you have any information or are you able to tell me the cumulative dose that a woman would receive if she used baby powder once a day for a year?
15 16 17 18 19 20 21 22 23	A. I am not aware of an epidemiological study substantiating the causation of ovarian cancer from the so-called fragrance chemicals. Let's just call them chemicals, because not all of them are fragrances. Q. You believe that the use of the chemicals, including fragrance chemicals,	16 17 18 19 20 21 22 23	A. I couldn't answer. MS. O'DELL: Object to the form. BY MR. ZELLERS: Q. Do you have any information or are you able to tell me the cumulative dose that a woman would receive if she used baby powder once a day for a year? MS. O'DELL: Object to the form.
15 16 17 18 19 20 21 22	A. I am not aware of an epidemiological study substantiating the causation of ovarian cancer from the so-called fragrance chemicals. Let's just call them chemicals, because not all of them are fragrances. Q. You believe that the use of the	16 17 18 19 20 21 22	A. I couldn't answer. MS. O'DELL: Object to the form. BY MR. ZELLERS: Q. Do you have any information or are you able to tell me the cumulative dose that a woman would receive if she used baby powder once a day for a year?

	Page 202		Page 204
1	make that judgment.	1	human health if the ingredient represents
2	BY MR. ZELLERS:	2	less than 0.1 percent of the total product
3	Q. If she used it once a day for	3	other than the genotoxicity issue we talked
4	five years or ten years?	4	about earlier?
5	MS. O'DELL: Object to the form.	5	MS. O'DELL: Object to the form.
6	A. Same answer.	6	A. Okay. So, as we talked about
7	BY MR. ZELLERS:	7	earlier, genotoxins don't have a threshold.
8	Q. Are you familiar with the	8	Right? They are I'd have to go look at
9	standards released by the Globally Harmonized	9	other known carcinogens and what the what
10	System of Classification and Labeling of	10	the that are thresholded to answer that
11	Chemicals, or GHS?	11	question. So it's so open-ended, I couldn't
12	A. Yes.	12	answer without reviewing the literature.
13	Q. You rely on the GHS standards in	13	BY MR. ZELLERS:
14	your report. Is that right?	14	Q. One of strike that.
15	A. Yes.	15	We talked about exposure and
16	Q. It's true, is it not, that for	16	exposure assessments earlier today. Is that
17	carcinogens, the GHS does not require a	17	÷
18		18	right? A. Yes.
19	hazard statement regarding an ingredient if that ingredient makes up less than	19	
20			Q. You've not done an exposure
	0.1 percent of the entire product?	20	assessment in this case. Right?
21	MS. O'DELL: Object to form.	21	A. Right. I couldn't because I
22	A. I'd have to check the GHS	22	didn't have the information.
23	standards on that.	23	Q. Have you ever evaluated a
24		24	vaginal product?
	Page 203		Page 205
1	BY MR. ZELLERS:	1	A. I've developed vaginal products.
2	Q. Take a look at Deposition	2	There's a product called Crinone. It's
3	Exhibit 24.	3	commercially available. It's a vaginal cream
4	(Exhibit No. 24 marked)	4	containing progesterone. It's administered
5	BY MR. ZELLERS:	5	to women to prevent them from going into
6	Q. Exhibit 24 are the GHS standards	6	preterm labor.
7	of classification and labeling of chemicals.	7	I've also developed vaginal
8	Is that right?	8	bacteria vaginosis and fungal vaginosis
9	A. It's labeled GHS Info Sheet	9	products.
10	No. 7 on carcinogenicity.	10	Q. When did which products?
11	Q. All right. If you go to Table 2	11	A. So the company that makes
12	on Page 2 of Exhibit 24, it provides the	12	Thiola, Mission I, for God's sake, cannot
13	cut-off values or concentration limits that	13	think of the name of that product right now.
14	trigger the classification of mixtures.	14	It's escaping me. But they have a bacterial
15	A. Okay.	15	vaginosis product that I helped formulate.
16	Q. Do you see that?	16	Q. And you
17	A. Yes.	17	A. We also
18	Q. And for both Category 1 and	18	Q. Go ahead and finish, please.
19	Category 2 carcinogens, the cut-off is	19	A. Yeah. There's also a company
20	greater than equal to or greater than	20	called Columbia Laboratories. They've been
21	0.1 percent. Is that right?	21	bought and sold I don't know how many times.
22	A. That's what it says.	22	They're the makers of Crinone.
23	Q. Do you have any science that	23	We also looked at other products
24	ingredients can have a critical effect on	24	for them based on the, you know, Crinone drug
			, , ou mis, e mene diag

	Page 206		Page 208
1	delivery system.	1	A. I would.
2	Q. With which company were you	2	Q in terms of that?
3	with?	3	A. Yeah.
4	A. I was with Mission Pharmacal and	4	THE REPORTER: Try to let him
5	PharmaForm.	5	finish his question for me, please.
6	Q. PharmaForm is the company you	6	BY MR. ZELLERS:
7	had a disagreement with. Is that right?	7	Q. Do you know whether or not the
8	A. Yeah.	8	cervix is more or less sensitive than the
9	Q. What, generally, was the	9	ovaries to the impact of foreign particles?
10	disagreement?	10	MS. O'DELL: Object to the form.
11	A. I was an owner. We sold it.	11	A. I do not know.
12	Part of the sale was they wanted us to stay	12	BY MR. ZELLERS:
13	and run it, and there was an employment	13	Q. You're expressing no opinions
14	agreement with associated with the sale	14	and have not considered inhalation exposure.
15	where they would pay out some money over	15	Correct?
16	time. So, after a couple of years, they	16	A. I am not
17	didn't want to pay.	17	MS. O'DELL: Object to the form.
18	Q. In order for a fragrance	18	A. Yeah, I am not opining on
19	chemical or a chemical to get from the	19	inhalation.
20	peroneal region to the ovaries, they have to	20	BY MR. ZELLERS:
21	get past a number of other structures. Is	21	Q. In Section 3.9 of your report,
22	that right?	22	you identify a number of components or
23	MS. O'DELL: Object to the form.	23	ingredients for which IREF strike that
24	A. I I will defer to the other	24	IFRA has developed an exposure limit. Is
	Page 207		Page 209
1	experts to opine on that matter.	1	that right?
2	BY MR. ZELLERS:	2	A. Which page? Table 13 on
3	Q. The female reproductive system	3	Page 41?
4	has a number of defense mechanisms that	4	Q. Yes.
5	prevent most foreign particles from getting	5	A. Yeah, some of these are older
6	from the peroneal region to the ovaries.	6	standards that you know, they've IFRA's
7	MS. O'DELL: Object	7	has moved to this QRA. So some of them have
8	BY MR. ZELLERS:	8	been replaced by QRAs, but these are some
9	Q. Is that your understanding?	9	of these are historical.
10	MS. O'DELL: Object to the form.	10	Q. Looking at Page 39, the
11	BY MR. ZELLERS:	11	restriction means that IFRA has recommended
12	Q. Or do you defer to other experts	12	that exposure to the ingredient be limited to
13	on that?	13	a specific dose or amount. Is that right?
14	A. I think I'll defer to other	14	A. Category 5 restriction is
15	experts there.	15	defined in my report, yeah.
16	Q. Have you done any testing to	16	Q. Is that correct?
17	quantify the difference between the dose	17	A. Yeah. I mean, there's a
	applied to the peroneal region and the dose	18	percentage there that you're not to exceed.
18	41. 4	19	So that's the limitation.
18 19	that would reach the ovaries, assuming that		
	baby powder or Shower to Shower powder can	20	Q. Do you have any opinion that the
19		20 21	Q. Do you have any opinion that the amount of these ingredients in baby powder or
19 20	baby powder or Shower to Shower powder can		
19 20 21	baby powder or Shower to Shower powder can reach the ovaries?	21	amount of these ingredients in baby powder or

	Page 210		Page 212
1	I've never been provided the composition,	1	A. That's correct.
2	SO	2	Q. Food additives are listed on
3	Q. In their recommendations, does	3	RTECS. Is that right?
4	IFRA say that any of these ingredients	4	A. Yes.
5	contribute to ovarian cancer if they exceed	5	Q. It's your opinion that fragrance
6	the exposure limit?	6	chemicals and chemicals in the talc products
7	A. I don't believe IFRA stated	7	contribute to the potential carcinogenicity
8	that.	8	of the products. Is that right?
9	Q. You referred to the RTECS	9	A. That's correct. Several of
10	database. Is that right? And I'm looking at	10	several of the fragrance chemicals are
11	your report, Page 21.	11	co-carcinogenic, which means they were found
12	A. Yes.	12	to, you know, promote tumors in animals when
13	Q. What does RTECS stand for?	13	co-administered with a known carcinogen.
14	A. The Registry of Toxic Effects of	14	Q. Do you agree that it's possible
15	Chemical Substances.	15	that an ingredient can cause or contribute to
16	Q. Do you know who maintains the	16	the development of one type of cancer but not
17	RTECS database?	17	to another type of cancer?
18	A. It was initially maintained by	18	A. Yeah, that's a
19	the Center for Disease Control, and I believe	19	MS. O'DELL: Object to the form.
20	it's been sold or outlicensed to other	20	A. That's a true statement.
21	companies.	21	BY MR. ZELLERS:
22	Q. There's now a third party	22	Q. Do you agree that it's possible
23	contractor that	23	that an ingredient can cause or contribute to
24	A. Yes.	24	the development of cancer or a cancer in an
24	A. Tes.	24	the development of cancer of a cancer in an
	Page 211		Page 213
1	Q maintains the RTECS database?	1	animal but not in humans?
2	A. Yes.	2	A. Yes.
3	Q. Are you familiar with NIOSH, the	3	Q. Smoking is strike that.
4	National Institute for Occupational Safety	4	Smoking is associated with lung
5	and Heath?	5	cancer. Is that right? If you know.
6	A. Yes.	6	A. Yes.
7	Q. Are you aware that NIOSH on its	7	Q. Smoking has not been found to be
8	website states that it cannot attest to the	8	associated with malignant melanoma. Do you
9	accuracy of RTECS?	9	agree?
10	A. No, I wasn't aware of that.	10	MS. O'DELL: If you know. Don't
11	Q. Does being on RTECS mean that a	11	guess.
12	chemical is strike that.	12	A. I don't know. My dad has
13	Being listed on RTECS does not	13	multiple myeloma, and and he was a smoker,
14	mean that a chemical is harmful. Correct?	14	but I don't know the etiology of well, did
15	A. Not necessarily. I mean,	15	you say malignant myeloma or
16	there's a set of circumstances where it could	16	BY MR. ZELLERS:
17	be and other circumstances it may not be.	17	Q. Malignant melanoma.
18	Q. Being listed on the RTECS	18	A. Yeah. I don't know if there's
19	database just means that toxicological data	19	an established connection between smoking and
20	that's been published about the ingredient?	20	that.
21	A. Yes.	21	Q. You're not an expert in cancer.
22	Q. Prescription and	22	Correct?
23	non-prescription drugs are listed on RTECS.	23	A. I would not consider myself to
24	Correct?	24	be an expert in cancer.
			1

	Page 214		Page 216
1	Q. You are not an expert in ovarian	1	A. Yeah. I think I answered that I
2	cancer. Correct?	2	would take that on a case-by-case basis.
3	A. I am not an expert in ovarian	3	There could be chronic effects, especially
4	cancer.	4	with respect to sensitizers.
5	Q. Do you agree that fragrances are	5	BY MR. ZELLERS:
6	generally broken down quickly in the body?	6	Q. You have not done that type of
7	MS. O'DELL: Object to the form.	7	analysis at least with respect to any
8	A. I don't know that I can agree to	8	potential relationship between the fragrance
9	a general statement like that. I would have	9	chemicals or chemicals you've identified in
10	to examine the route of administration. So	10	baby powder or Shower to Shower and ovarian
11	whether they're applied to the skin or if	11	cancer. Correct?
12	they're swallowed, as we discussed earlier,	12	MS. O'DELL: Objection to form.
13	the kinetics of how they're metabolized,	13	A. Well, several of them did have
14	distributed, and eliminated are a function of	14	published chronic dosing studies, and I
15	those things.	15	certainly looked at those. No, I have not
16	BY MR. ZELLERS:	16	done a deep-dive analysis on that.
17	Q. Those are all important	17	BY MR. ZELLERS:
18	components. Correct?	18	Q. What, if anything, does
19	A. Yes.	19	irritation have to do with the development of
20	Q. And you have not done an	20	ovarian cancer?
21	analysis of that type in this case. Correct?	21	A. Irritation causes an
22	A. That's correct.	22	inflammatory response. Inflammatory
23	Q. Do you agree that the primary	23	responses are associated with a higher risk
24	effects of exposure to fragrance chemicals	24	of developing cancers, and specific
	Dago 215		Dago 217
1	Page 215	1	Page 217
1	are acute, like headache or skin irritation?	1	Q. That's a general statement.
2	are acute, like headache or skin irritation? MS. O'DELL: Object to the form.	2	Q. That's a general statement. Correct?
2	are acute, like headache or skin irritation? MS. O'DELL: Object to the form. A. Again, it's a general statement.	2 3	Q. That's a general statement. Correct? A. It is a general statement. But
2 3 4	are acute, like headache or skin irritation? MS. O'DELL: Object to the form. A. Again, it's a general statement. You know, my son is allergic to certain	2 3 4	Q. That's a general statement. Correct? A. It is a general statement. But also, with respect to the vagina, insults to
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PageID: 200401 Michael Crowley, Ph.D.

	Page 218		Page 220
1	cells in animal models, like Chinese hamster	1	And I'd like to add one quick
2	ovary cell models, oocyte degeneration that	2	point. You mentioned the rosin earlier,
3	are associated with female reproductive	3	Methyl Hydrogenated Rosinate. That's glue.
4	organs. So, no, not in humans, but we've	4	It's a film former. It adheres the fragrance
5	seen in vitro and in vivo animal studies.	5	chemicals to the talc particles. So where
6	BY MR. ZELLERS:	6	-
7		7	the talc particles go, the fragrance
	Q. Take a look, if you will, at		chemicals will go. We have a result here in which
8	your report, Table 7, Page 21. The first	8	
9	ingredient you list is d-Limonene?	9	d-Limonene was found to be cytotoxic against
10	A. Limonene, I believe, is how it's	10	Chinese hamster ovary cells in which the
11	pronounced.	11	inhibitory concentration of 50 percent was 50
12	Q. Limonene?	12	micrograms per mL. That is a very, very low
13	A. Yeah.	13	concentration.
14	Q. That's a chemical found in the	14	So, if there was d-Limonene
15	peels of citrus fruit. Is that right?	15	attached to a talc particle with the rosin
16	A. I don't know if it comes from	16	and that particular talc particle entered the
17	the peels. I read that a while back. I'll	17	vagina and landed next to an ovary, I think
18	take your word for it. I know it's in	18	that data strongly suggests that those two
19	lemons. I believe it's in oranges, too, and	19	materials are not compatible and there would
20	other citrus fruits.	20	be problems. That study makes it clear and
21	And I know that there's a	21	equivocal that d-Limonene is not compatible
22	cleanser that's got it in there.	22	with Chinese hamster ovary cells. I wouldn't
23	Q. I misstated. For our record,	23	put my daughter's ovary at risk with it.
24	it's Page 22 where Table 7 begins.	24	
	Page 219		D 001
	1496 219		Page 221
1	A. Oh.	1	BY MR. ZELLERS:
1 2		1 2	
	A. Oh.		BY MR. ZELLERS:
2	A. Oh. Q. Is that right?	2	BY MR. ZELLERS: Q. In order to do a proper
2	A. Oh.Q. Is that right?A. Yeah.	2 3	BY MR. ZELLERS: Q. In order to do a proper scientific analysis, you have to make an
2 3 4	A. Oh.Q. Is that right?A. Yeah.Q. d-Limonene is used as both a	2 3 4	BY MR. ZELLERS: Q. In order to do a proper scientific analysis, you have to make an assessment of concentration. Correct?
2 3 4 5	A. Oh.Q. Is that right?A. Yeah.Q. d-Limonene is used as both a fragrance and a flavoring. Is that right?	2 3 4 5	BY MR. ZELLERS: Q. In order to do a proper scientific analysis, you have to make an assessment of concentration. Correct? A. Uh-huh.
2 3 4 5 6	 A. Oh. Q. Is that right? A. Yeah. Q. d-Limonene is used as both a fragrance and a flavoring. Is that right? A. I believe so. 	2 3 4 5 6	BY MR. ZELLERS: Q. In order to do a proper scientific analysis, you have to make an assessment of concentration. Correct? A. Uh-huh. Q. Yes?
2 3 4 5 6 7	 A. Oh. Q. Is that right? A. Yeah. Q. d-Limonene is used as both a fragrance and a flavoring. Is that right? A. I believe so. Q. If d-Limonene were associated with the development of ovarian cancer, wouldn't you expect to see higher rates of 	2 3 4 5 6 7	BY MR. ZELLERS: Q. In order to do a proper scientific analysis, you have to make an assessment of concentration. Correct? A. Uh-huh. Q. Yes? A. Yes.
2 3 4 5 6 7 8	 A. Oh. Q. Is that right? A. Yeah. Q. d-Limonene is used as both a fragrance and a flavoring. Is that right? A. I believe so. Q. If d-Limonene were associated with the development of ovarian cancer, 	2 3 4 5 6 7 8	BY MR. ZELLERS: Q. In order to do a proper scientific analysis, you have to make an assessment of concentration. Correct? A. Uh-huh. Q. Yes? A. Yes. MS. O'DELL: Object to form.
2 3 4 5 6 7 8 9	 A. Oh. Q. Is that right? A. Yeah. Q. d-Limonene is used as both a fragrance and a flavoring. Is that right? A. I believe so. Q. If d-Limonene were associated with the development of ovarian cancer, wouldn't you expect to see higher rates of 	2 3 4 5 6 7 8	BY MR. ZELLERS: Q. In order to do a proper scientific analysis, you have to make an assessment of concentration. Correct? A. Uh-huh. Q. Yes? A. Yes. MS. O'DELL: Object to form. BY MR. ZELLERS:
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2 3 4 5 6 7 8 9 10	A. Oh. Q. Is that right? A. Yeah. Q. d-Limonene is used as both a fragrance and a flavoring. Is that right? A. I believe so. Q. If d-Limonene were associated with the development of ovarian cancer, wouldn't you expect to see higher rates of ovarian cancer among people who handle fruit? MS. O'DELL: Object to the form.	2 3 4 5 6 7 8 9 10	BY MR. ZELLERS: Q. In order to do a proper scientific analysis, you have to make an assessment of concentration. Correct? A. Uh-huh. Q. Yes? A. Yes. MS. O'DELL: Object to form. BY MR. ZELLERS: Q. You have to makes an assessment of dose response. Correct?
2 3 4 5 6 7 8 9 10 11	A. Oh. Q. Is that right? A. Yeah. Q. d-Limonene is used as both a fragrance and a flavoring. Is that right? A. I believe so. Q. If d-Limonene were associated with the development of ovarian cancer, wouldn't you expect to see higher rates of ovarian cancer among people who handle fruit? MS. O'DELL: Object to the form. MR. ZELLERS: What are you	2 3 4 5 6 7 8 9 10 11 12	BY MR. ZELLERS: Q. In order to do a proper scientific analysis, you have to make an assessment of concentration. Correct? A. Uh-huh. Q. Yes? A. Yes. MS. O'DELL: Object to form. BY MR. ZELLERS: Q. You have to makes an assessment of dose response. Correct? MS. O'DELL: Object to the form.
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. Oh. Q. Is that right? A. Yeah. Q. d-Limonene is used as both a fragrance and a flavoring. Is that right? A. I believe so. Q. If d-Limonene were associated with the development of ovarian cancer, wouldn't you expect to see higher rates of ovarian cancer among people who handle fruit? MS. O'DELL: Object to the form. MR. ZELLERS: What are you objecting to? That was a good question. A. So again we get to route of exposure. I mean, the presumption is that handling fruit, you know, doesn't transfer the d-Limonene through the skin into the blood and ultimately reach the ovaries. And, you know, this matter	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	BY MR. ZELLERS: Q. In order to do a proper scientific analysis, you have to make an assessment of concentration. Correct? A. Uh-huh. Q. Yes? A. Yes. MS. O'DELL: Object to form. BY MR. ZELLERS: Q. You have to makes an assessment of dose response. Correct? MS. O'DELL: Object to the form. A. It depends. Again, I keep telling you genotoxic materials they are not thresholded. BY MR. ZELLERS: Q. It is A. One molecule is enough to cause an increased risk and carcinogenicity.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. Oh. Q. Is that right? A. Yeah. Q. d-Limonene is used as both a fragrance and a flavoring. Is that right? A. I believe so. Q. If d-Limonene were associated with the development of ovarian cancer, wouldn't you expect to see higher rates of ovarian cancer among people who handle fruit? MS. O'DELL: Object to the form. MR. ZELLERS: What are you objecting to? That was a good question. A. So again we get to route of exposure. I mean, the presumption is that handling fruit, you know, doesn't transfer the d-Limonene through the skin into the blood and ultimately reach the ovaries. And, you know, this matter peroneal application, that's awfully close to	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	BY MR. ZELLERS: Q. In order to do a proper scientific analysis, you have to make an assessment of concentration. Correct? A. Uh-huh. Q. Yes? A. Yes. MS. O'DELL: Object to form. BY MR. ZELLERS: Q. You have to makes an assessment of dose response. Correct? MS. O'DELL: Object to the form. A. It depends. Again, I keep telling you genotoxic materials they are not thresholded. BY MR. ZELLERS: Q. It is A. One molecule is enough to cause an increased risk and carcinogenicity. Q. Is d-Limonene a genotoxic
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	A. Oh. Q. Is that right? A. Yeah. Q. d-Limonene is used as both a fragrance and a flavoring. Is that right? A. I believe so. Q. If d-Limonene were associated with the development of ovarian cancer, wouldn't you expect to see higher rates of ovarian cancer among people who handle fruit? MS. O'DELL: Object to the form. MR. ZELLERS: What are you objecting to? That was a good question. A. So again we get to route of exposure. I mean, the presumption is that handling fruit, you know, doesn't transfer the d-Limonene through the skin into the blood and ultimately reach the ovaries. And, you know, this matter peroneal application, that's awfully close to the ovaries, and, you know, as I said, I've	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	BY MR. ZELLERS: Q. In order to do a proper scientific analysis, you have to make an assessment of concentration. Correct? A. Uh-huh. Q. Yes? A. Yes. MS. O'DELL: Object to form. BY MR. ZELLERS: Q. You have to makes an assessment of dose response. Correct? MS. O'DELL: Object to the form. A. It depends. Again, I keep telling you genotoxic materials they are not thresholded. BY MR. ZELLERS: Q. It is A. One molecule is enough to cause an increased risk and carcinogenicity. Q. Is d-Limonene a genotoxic material?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. Oh. Q. Is that right? A. Yeah. Q. d-Limonene is used as both a fragrance and a flavoring. Is that right? A. I believe so. Q. If d-Limonene were associated with the development of ovarian cancer, wouldn't you expect to see higher rates of ovarian cancer among people who handle fruit? MS. O'DELL: Object to the form. MR. ZELLERS: What are you objecting to? That was a good question. A. So again we get to route of exposure. I mean, the presumption is that handling fruit, you know, doesn't transfer the d-Limonene through the skin into the blood and ultimately reach the ovaries. And, you know, this matter peroneal application, that's awfully close to	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	BY MR. ZELLERS: Q. In order to do a proper scientific analysis, you have to make an assessment of concentration. Correct? A. Uh-huh. Q. Yes? A. Yes. MS. O'DELL: Object to form. BY MR. ZELLERS: Q. You have to makes an assessment of dose response. Correct? MS. O'DELL: Object to the form. A. It depends. Again, I keep telling you genotoxic materials they are not thresholded. BY MR. ZELLERS: Q. It is A. One molecule is enough to cause an increased risk and carcinogenicity. Q. Is d-Limonene a genotoxic material? A. I don't believe it's been

PageID: 200402 Michael Crowley, Ph.D.

	Page 222		Page 224
1	could be against ovaries, at least in this	1	model you are familiar with to assess the
2	animal model.	2	risk in humans that does not include any type
3	Q. And what	3	of exposure assessment or analysis?
4	A. And you don't do those kind of	4	MS. O'DELL: Object to the form.
5	studies against humans. They're unethical.	5	BY MR. ZELLERS:
6	Right? So the safety of d-Limonene has not	6	Q. I don't want to sit here and
7	been established in human vaginas.	7	have you
8	Q. In order to do a scientific	8	A. You asked
9	study, d-Limonene you would need to also	9	Q internet research
10	do an exposure analysis. Correct?	10	A the question. I'm going to
11	MS. O'DELL: Object to the form.	11	get you the answer.
12	A. Not necessarily.	12	Q. Well, I'm not asking you to do
13	BY MR. ZELLERS:	13	internet research. What I'm asking you to
14	Q. You would not need to do an	14	do
15	exposure analysis in order to lead to a	15	A. This isn't it's not internet
16	scientifically valid conclusion of the effect	16	research.
17	of d-Limonene on a human?	17	Q. Well, you're doing something on
18	MS. O'DELL: Object to the form.	18	your computer.
19	A. You could, but you don't have	19	A. I'm looking for the name of the
20	to. What kind of I mean, I guess in the	20	Klimisch rating
21	model that you want to rely upon, it seems to	21	Q. Well, I'm okay if you supplement
22	be an important fact to you. But the fact is	22	your answer later on in the deposition.
23	it hasn't been done in humans in the vagina.	23	A. Okay. That's fine.
24	it hash t occir done in humans in the vagina.	24	Q. I just want to
21		24	Q. 1 Just want to
	Page 223		Page 225
1	BY MR. ZELLERS:	1	MS. O'DELL: Well, and if you
2	Q. An exposure analysis is an	2	want to explain what you were doing and
3	important part of a risk assessment.	3	respond, you're welcome to do that.
4	Correct?	4	A. Klimisch rating is an evaluation
5	MS. O'DELL: Object to the form,	5	approach. It's a systemic approach for
6	asked and answered.	6	evaluation of data, and it's got reliability
7	A. You've asked the question. I've	7	categories, so and that is a risk
8	answered it previously.	8	assessment model.
9	BY MR. ZELLERS:	9	BY MR. ZELLERS:
10	Q. And I'm assuming and recalling	10	Q. That involves no exposure
11	your answer was "yes." Is that right?	11	assessment. Is that right?
12	MS. O'DELL: That's not correct.	12	A. It does not involve an exposure
13	Misstates his testimony.	13	assessment.
14	BY MR. ZELLERS:	14	Q. Do you know the concentration of
15	Q. Is an exposure analysis an	15	d-Limonene in either baby powder or Shower to
16	important part of a risk assessment?	16	Shower?
17	A. The risk assessment	17	A. No.
18	MS. O'DELL: Objection; form.	18	MS. O'DELL: Object to the form.
19	A that you presented in one of	19	A. It was not provided to me.
20	your earlier exhibits says it is, but that's	20	BY MR. ZELLERS:
21	not the only risk assessment model that there	21	Q. Similarly, you don't know what
22	is.	22	dose of d-Limonene a woman would be exposed
	BY MR. ZELLERS:	1 22	to if she utilized either Shower to Shower or
23	DY MR. ZELLERS:	23	to it she utilized either Shower to Shower or
23 24	Q. Tell me what risk assessment	24	baby powder. Correct?

3 with 4 BY 5 6 benz 7 8 9 10 11 j 12 13 14 BY 15 6 16 benz 17 18 19 20 6 21 22 23 lotic 24 1 A 2 not t 3 BY 4 6 5 lotic 6 skin. 7 8 A 9 goin 10 you 10 you 10 you 11 A	MS. O'DELL: Object to the form. A. That's right. I wasn't provided a that information. MR. ZELLERS: Q. In your list, you give us zaldehyde? MS. O'DELL: Which list are you referring to? MR. ZELLERS: Page 22, Table 7. MS. O'DELL: Fair enough. I just didn't know MR. ZELLERS: That's okay. A. Benzaldehyde. That's correct. MR. ZELLERS: Q. Benzaldehyde. Do you know what zaldehyde is? A. Yes. Q. What is it? A. It's aldehyde of benzene. Q. Artificial almond oil. Correct? A. Yeah. Q. It's used as a fragrance in ons. Is that right?	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	oppose your motion to strike, and I object to your preamble and to directing the witness to answer a certain way. Dr. Crowley is endeavoring to answer your questions. BY MR. ZELLERS: Q. If assuming that benzaldehyde is artificial almond oil and is used as a fragrance in lotions, if it were associated with ovarian cancer, you would expect to see higher rates of ovarian cancer among users of almond-scented lotion. Correct? MS. O'DELL: Object to the form, incomplete hypothetical. A. Not necessarily. BY MR. ZELLERS: Q. Are you aware that benzaldehyde is also used as the flavoring in artificial almond extract? A. No. Q. Assuming that's true, if
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4 BY 5 6 benz 7 8 1 9 10 11 j 12 13 14 BY 15 6 16 benz 17 18 19 20 21 22 23 lotto 24 1 22 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	MR. ZELLERS: Q. In your list, you give us zaldehyde? MS. O'DELL: Which list are you referring to? MR. ZELLERS: Page 22, Table 7. MS. O'DELL: Fair enough. I just didn't know MR. ZELLERS: That's okay. A. Benzaldehyde. That's correct. MR. ZELLERS: Q. Benzaldehyde. Do you know what zaldehyde is? A. Yes. Q. What is it? A. It's aldehyde of benzene. Q. Artificial almond oil. Correct? A. Yeah. Q. It's used as a fragrance in	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	certain way. Dr. Crowley is endeavoring to answer your questions. BY MR. ZELLERS: Q. If assuming that benzaldehyde is artificial almond oil and is used as a fragrance in lotions, if it were associated with ovarian cancer, you would expect to see higher rates of ovarian cancer among users of almond-scented lotion. Correct? MS. O'DELL: Object to the form, incomplete hypothetical. A. Not necessarily. BY MR. ZELLERS: Q. Are you aware that benzaldehyde is also used as the flavoring in artificial almond extract? A. No. Q. Assuming that's true, if
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20 (21 22 (22 23 lotic 24 24 24 24 24 24 24 24 24 24 24 24 24	Q. Artificial almond oil. Correct?A. Yeah.Q. It's used as a fragrance in	20 21 22	A. No.Q. Assuming that's true, if
21 22 23 lotic 24 24 24 25 lotic 6 skin. 7 8 9 goin 10 you 4	A. Yeah. Q. It's used as a fragrance in	21 22	Q. Assuming that's true, if
22 10tic 23 24 24 24 24 24 24 24 24 24 25 25 25 25 25 25 25 25 25 25 25 25 25	Q. It's used as a fragrance in	22	
1		1	1 1 . 1
1	ons. Is that right?	1 00	benzaldehyde were associated with the
1		23	development of ovarian cancer, wouldn't you
2 not u 3 BY 1 4 (5 lotio 6 skin. 7 8 goin 10 you	MS. O'DELL: Object to the form.	24	expect to see higher rates of ovarian cancer
2 not u 3 BY I 4 (5 lotio 6 skin. 7 8 9 goin 10 you			Page 229
2 not u 3 BY 1 4 (5 lotio 6 skin. 7 8 goin 10 you	A. I don't know where it's used or	1	among people who use artificial almond
3 BY 1 4 (5 lotio 6 skin. 7 8 9 goin 10 you		2	extract?
4 (5 lotio 6 skin. 7 8 A 9 goin 10 you	MR. ZELLERS:	3	MS. O'DELL: Object to the form.
5 lotio 6 skin. 7 8 goin 10 you	Q. Assuming that it's used as a	4	A. Again, artificial almond extract
6 skin. 7 8 A 9 goin 10 you	on, lotions are applied topically to the	5	is generally eaten. We put it in cookies.
7 8 A 9 goin 10 you	. Is that right?	6	We have a cooking by the way, I love
8 goin 10 you	MS. O'DELL: Object to the form.	7	almond flavor. You know, it's not being
9 goin 10 you	A. Generally, yeah. And we keep	8	applied to the peroneal area, and it's
10 you	g down this rabbit hole. Just because	9	also you know, it had to check its
•	can rub it on the skin or swallow it	10	permeability and absorption through the skin.
±± 0008	sn't mean it's safe for your eyes or, in	11	Just, you know, sort of blanket
12 the c	case of females, vaginas.	12	statements that are broad like that don't put
	MR. ZELLERS:	13	the analysis that I've done in the proper
		14	perspective.
	Q. At some point Ms. O'Dell is	15	BY MR. ZELLERS:
C	g to have a chance to ask you questions,	1	
	you can pontificate as much as you want.	16	Q. Is there are you finished?
	ed, right now, if you can, just to try to	17	A. Yes.
	ver my questions. Okay?	18	Q. Is there any evidence that
19		19	exposure to artificial almond extract
	MS. O'DELL: He answered your	20	contributes to the development of ovarian
21	question.	21	cancer?
	question. MR. ZELLERS: He's not answering	22	MS. O'DELL: Object to the form.
	question. MR. ZELLERS: He's not answering my question, and I move to strike as	23 24	 You asked about ovarian cancer.
24	question. MR. ZELLERS: He's not answering		71. Tod dsked doodt ovarian edneer.

Page 232 Page 230 1 BY MR. ZELLERS: 1 Q. You have not done an analysis 2 O. Well ---2 with respect to routes of exposure with regard to benzaldehyde. Correct? A. 3 3 Here is what the data that I did 4 MS. O'DELL: Object to the form. 4 find stated, was that there was a positive in 5 sister chromatid exchange, which is 5 I did. I did look at all the genotoxicity, with human lymphocytes from 6 6 available information on pharmacokinetics; healthy non-smoking donors. It was also 7 absorption, distribution, metabolism, and 7 found to induce formulation of stable elimination. And --8 8 9 DNA-protein cross-links in cultured human 9 BY MR. ZELLERS: lymphoma cells. That's from TOXNET. 10 10 Q. Where is that in your report? Demir -- I don't know how to It would be in the appendices. 11 11 12 pronounce it -- Kocaoglu and Kaya reported 12 All right. that it may have significant genotoxic So the PubChem link, it lists 13 13 A. effects. 14 14 all of that. 15 It was cytogenic at 50 nanomoles 15 Q. Do you know --16 per liter in 24 hours against Chinese hamster 16 The pharmacologies -- I'm sorry. A. ovary cells. Nanomoles per liter. That's a 17 17 I wasn't done. 18 very low concentration. All right. Please finish your 18 O. 19 Sister chromatid exchange in 19 answer. Chinese hamster ovary cells published by 20 20 Yeah. The pharmacology for each and every one of those chemicals I looked at 21 Galloway. 21 22 22 So again, that's -- that's a in depth. 23 direct -- direct evidence of benzaldehyde 23 Do you know the concentration of interacting with a cell, and that's different benzaldehyde in baby powder or Shower to 24 24 Page 231 Page 233 1 than cells on your tongue, and that's Shower? 2 different than cells on your skin. 2 A. I think you've asked me this 3 3 question now at least a half dozen times. I BY MR. ZELLERS: have not been provided with the compositions. 4 4 O. It is not a --5 5 The same thing for what dose of Α. So --I'm sorry. Finish your answer. 6 this chemical a woman would be exposed to if 6 Q. 7 So that's what I'm reporting. 7 she used baby powder or Shower to Shower. A. And companies that are going to develop 8 8 Correct? products that are intended for topical 9 9 MS. O'DELL: Object to the form administration take those kinds of things of that question and the question 10 10 into consideration. That's why they do eye 11 11 before. irritation and eye sens- -- you know, skin 12 12 Again, that information was 13 sensitization studies. 13 requested and was not provided. 14 If a product is going to be 14 BY MR. ZELLERS: 15 applied to the peroneal area, companies are 15 Q. Looking at Table 7, Pages 21 to going to consider, well, that may enter the 26, can you point to any chemical where there 16 16 17 anus. It could enter the vagina. What is a 17 is evidence that the chemical contributes to 18 potential outcome? 18 ovarian cancer in humans? Those are standard and typical 19 19 MS. O'DELL: Object to the form. considerations when companies develop 20 20 A. Give me a minute. 21 products. 21 para-Cresol. Women exposed in their 22 Q. Routes of exposure are workplace to varnishes that contained mixed 22 important. Correct? 23 Cresols had increased gynecological problems 23 24 A. Yes. 24 such as menstrual disorders and hormonal

PageID: 200405 Michael Crowley, Ph.D.

	Page 234		Page 236
1	disturbances. An increased frequency of	1	your answer?
2	perinatal mortality and abnormal development	2	A. Yeah.
3	of newborn infants was also reported.	3	Q. In your report, you claim that
4	BY MR. ZELLERS:	4	four chemicals in baby powder have been
5	Q. Do any of those studies relate	5	identified by IARC, the International Agency
6	to or reference an increased risk of ovarian	6	for Research on Cancer, as potential
7	cancer?	7	carcinogens. Is that right? And I'm looking
8			
9	MS. O'DELL: Object to the form. A. Ovarian cancer in humans or in	8 9	at Page 12.
10	A. Ovarian cancer in humans or in animals? I feel like	10	A. Yes.
			Q. You list styrene, d-Limonene, coumarin
11	BY MR. ZELLERS:	11	
12	Q. In humans, yes.	12	A. Yes.
13	A we keep going back and forth	13	Q and eugenol?
14	here.	14	A. Yes.
15	Q. Let's limit it to humans.	15	Q. You also claim, on Page 12, that
16	A. Pardon me?	16	three chemicals in Shower to Shower have been
17	Q. In humans.	17	identified by IARC as possible carcinogens.
18	MS. O'DELL: Object to the form.	18	Is that right?
19	A. No, they have not been studied	19	A. Yes.
20	for ovarian cancer in humans.	20	Q. Benzophenone, coumarin, and
21	BY MR. ZELLERS:	21	eugenol. Is that right? Those are the three
22	Q. I want to ask you the same	22	that you identified for Shower to Shower?
23	question with respect to Shower to Shower.	23	A. Benzophenone, coumarin, and
24	So Table 16, can you point to any chemical	24	eugenol. I also identified musk ketone.
	Page 235		Page 237
1	where there is evidence that the chemical	1	That's the Scientific Committee on Health and
2	contributes to ovarian cancer in humans?	2	Environmental Risks in Europe. You also
3	A. A human study? You want to	3	didn't mention para-Cresol, which the EPA
4	Q. Yes.	4	considers to be possibly carcinogenic.
5			considers to be possibly carefulgenic.
	A Voulre choosing to ignore all		- · · · · · · · · · · · · · · · · · · ·
	A. You're choosing to ignore all	5	Q. I'm going to get to musk ketone
6	the animal studies and in vitro studies?	5 6	Q. I'm going to get to musk ketone and para-Caresol or Cresol, but right now
6 7	the animal studies and in vitro studies? Just	5 6 7	Q. I'm going to get to musk ketone and para-Caresol or Cresol, but right now I want to just limit my questions to the IARC
6 7 8	the animal studies and in vitro studies? Just Q. I'm not asking	5 6 7 8	Q. I'm going to get to musk ketone and para-Caresol or Cresol, but right now I want to just limit my questions to the IARC references that you make.
6 7 8 9	the animal studies and in vitro studies? Just Q. I'm not asking A. Just so we're clear on that.	5 6 7 8 9	Q. I'm going to get to musk ketone and para-Caresol or Cresol, but right now I want to just limit my questions to the IARC references that you make. A. Okay.
6 7 8 9 10	the animal studies and in vitro studies? Just Q. I'm not asking A. Just so we're clear on that. Q. I'm not looking to argue with	5 6 7 8 9	Q. I'm going to get to musk ketone and para-Caresol or Cresol, but right now I want to just limit my questions to the IARC references that you make. A. Okay. Q. Understood?
6 7 8 9 10 11	the animal studies and in vitro studies? Just Q. I'm not asking A. Just so we're clear on that. Q. I'm not looking to argue with you. Okay? I've asked you a question. I'd	5 6 7 8 9 10 11	Q. I'm going to get to musk ketone and para-Caresol or Cresol, but right now I want to just limit my questions to the IARC references that you make. A. Okay. Q. Understood? A. Sure.
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6 7 8 9 10 11 12 13	the animal studies and in vitro studies? Just Q. I'm not asking A. Just so we're clear on that. Q. I'm not looking to argue with you. Okay? I've asked you a question. I'd like you to try to answer to the best of your ability?	5 6 7 8 9 10 11 12 13	Q. I'm going to get to musk ketone and para-Caresol or Cresol, but right now I want to just limit my questions to the IARC references that you make. A. Okay. Q. Understood? A. Sure. Q. You're familiar with the well, and so our record is clear, you
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6 7 8 9 10 11 12 13 14 15	the animal studies and in vitro studies? Just Q. I'm not asking A. Just so we're clear on that. Q. I'm not looking to argue with you. Okay? I've asked you a question. I'd like you to try to answer to the best of your ability? MS. O'DELL: I will object. I'm going to object to the form of the question and just ask if you would let	5 6 7 8 9 10 11 12 13 14 15 16	Q. I'm going to get to musk ketone and para-Caresol or Cresol, but right now I want to just limit my questions to the IARC references that you make. A. Okay. Q. Understood? A. Sure. Q. You're familiar with the well, and so our record is clear, you identified four chemicals or fragrance chemicals with baby powder that are potentially that are potential carcinogens
6 7 8 9 10 11 12 13 14 15 16	the animal studies and in vitro studies? Just Q. I'm not asking A. Just so we're clear on that. Q. I'm not looking to argue with you. Okay? I've asked you a question. I'd like you to try to answer to the best of your ability? MS. O'DELL: I will object. I'm going to object to the form of the question and just ask if you would let Dr. Crowley finish.	5 6 7 8 9 10 11 12 13 14 15 16	Q. I'm going to get to musk ketone and para-Caresol or Cresol, but right now I want to just limit my questions to the IARC references that you make. A. Okay. Q. Understood? A. Sure. Q. You're familiar with the well, and so our record is clear, you identified four chemicals or fragrance chemicals with baby powder that are potentially that are potential carcinogens according to IARC. Is that right? Styrene,
6 7 8 9 10 11 12 13 14 15 16 17	the animal studies and in vitro studies? Just Q. I'm not asking A. Just so we're clear on that. Q. I'm not looking to argue with you. Okay? I've asked you a question. I'd like you to try to answer to the best of your ability? MS. O'DELL: I will object. I'm going to object to the form of the question and just ask if you would let Dr. Crowley finish. A. Yeah. So you're asking for	5 6 7 8 9 10 11 12 13 14 15 16 17	Q. I'm going to get to musk ketone and para-Caresol or Cresol, but right now I want to just limit my questions to the IARC references that you make. A. Okay. Q. Understood? A. Sure. Q. You're familiar with the well, and so our record is clear, you identified four chemicals or fragrance chemicals with baby powder that are potentially that are potential carcinogens according to IARC. Is that right? Styrene, d-Limonene, coumarin, and eugenol.
6 7 8 9 10 11 12 13 14 15 16 17 18	the animal studies and in vitro studies? Just Q. I'm not asking A. Just so we're clear on that. Q. I'm not looking to argue with you. Okay? I've asked you a question. I'd like you to try to answer to the best of your ability? MS. O'DELL: I will object. I'm going to object to the form of the question and just ask if you would let Dr. Crowley finish. A. Yeah. So you're asking for human studies only.	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	Q. I'm going to get to musk ketone and para-Caresol or Cresol, but right now I want to just limit my questions to the IARC references that you make. A. Okay. Q. Understood? A. Sure. Q. You're familiar with the well, and so our record is clear, you identified four chemicals or fragrance chemicals with baby powder that are potentially that are potential carcinogens according to IARC. Is that right? Styrene, d-Limonene, coumarin, and eugenol. A. Isn't that the same question you
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	the animal studies and in vitro studies? Just Q. I'm not asking A. Just so we're clear on that. Q. I'm not looking to argue with you. Okay? I've asked you a question. I'd like you to try to answer to the best of your ability? MS. O'DELL: I will object. I'm going to object to the form of the question and just ask if you would let Dr. Crowley finish. A. Yeah. So you're asking for human studies only. BY MR. ZELLERS:	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Q. I'm going to get to musk ketone and para-Caresol or Cresol, but right now I want to just limit my questions to the IARC references that you make. A. Okay. Q. Understood? A. Sure. Q. You're familiar with the well, and so our record is clear, you identified four chemicals or fragrance chemicals with baby powder that are potentially that are potential carcinogens according to IARC. Is that right? Styrene, d-Limonene, coumarin, and eugenol. A. Isn't that the same question you just asked me?
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6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	the animal studies and in vitro studies? Just Q. I'm not asking A. Just so we're clear on that. Q. I'm not looking to argue with you. Okay? I've asked you a question. I'd like you to try to answer to the best of your ability? MS. O'DELL: I will object. I'm going to object to the form of the question and just ask if you would let Dr. Crowley finish. A. Yeah. So you're asking for human studies only. BY MR. ZELLERS: Q. Yes. A. Right? There isn't one because these haven't been studied in human vaginas.	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Q. I'm going to get to musk ketone and para-Caresol or Cresol, but right now I want to just limit my questions to the IARC references that you make. A. Okay. Q. Understood? A. Sure. Q. You're familiar with the well, and so our record is clear, you identified four chemicals or fragrance chemicals with baby powder that are potentially that are potential carcinogens according to IARC. Is that right? Styrene, d-Limonene, coumarin, and eugenol. A. Isn't that the same question you just asked me? Q. Yes, but you then added in musk ketone and para-Cresol. Those two you cite other sources for them being identified as a
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	the animal studies and in vitro studies? Just Q. I'm not asking A. Just so we're clear on that. Q. I'm not looking to argue with you. Okay? I've asked you a question. I'd like you to try to answer to the best of your ability? MS. O'DELL: I will object. I'm going to object to the form of the question and just ask if you would let Dr. Crowley finish. A. Yeah. So you're asking for human studies only. BY MR. ZELLERS: Q. Yes. A. Right? There isn't one because	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. I'm going to get to musk ketone and para-Caresol or Cresol, but right now I want to just limit my questions to the IARC references that you make. A. Okay. Q. Understood? A. Sure. Q. You're familiar with the well, and so our record is clear, you identified four chemicals or fragrance chemicals with baby powder that are potentially that are potential carcinogens according to IARC. Is that right? Styrene, d-Limonene, coumarin, and eugenol. A. Isn't that the same question you just asked me? Q. Yes, but you then added in musk ketone and para-Cresol. Those two you cite

PageID: 200406 Michael Crowley, Ph.D.

	Page 238		Page 240
1	right?	1	on my computer.
2	A. Yes.	2	Q. If you look at Deposition
3	MS. O'DELL: Object to the form.	3	Exhibit 25, the classification system in the
4	BY MR. ZELLERS:	4	preamble, for Group 3, the chemical is not
5	Q. I just want, right now, to talk	5	classifiable as to its carcinogenicity to
6	about the IARC references that you make.	6	humans. That's the title of that group. Is
7	You're familiar with the classification	7	that right?
8	system that IARC has established. Is that	8	A. That's what it says, "The agent
9	right?	9	is not classifiable as to its carcinogenicity
10	A. Yes.	10	to humans."
11	Q. Group 4 chemicals are probably	11	Q. The description at least the
12	not carcinogenic to humans. Is that right?	12	first paragraph of the description for
13	A. Is that a question?	13	Group 3, "This category is used most commonly
14	Q. Yes.	14	for agents for which the evidence of
15	A. Yeah, Group 4 is probably not		-
16		15	carcinogenicity is inadequate in humans and
17	carcinogenic to humans.	16	inadequate or limited in experimental
	Q. Group 3 chemicals are not	17	animals."
18	classifiable as to the carcinogenicity to	18	Did I read this correctly?
19	humans. Right?	19	MS. O'DELL: Object to the form.
20	A. Yes.	20	A. Yeah, I believe you read that
21	Q. That category is used where the	21	faithfully.
22	evidence of carcinogenicity is inadequate in	22	BY MR. ZELLERS:
23	humans and inadequate or limited in	23	Q. All right. Group 2B
24	experimental animals. Correct?	24	A. Well, wait a minute. You need
	Page 239		Page 241
1	A. No. That's only half of it.	1	to read the next paragraph, because that's
2	The other part of that is evidence of	_	
		2	important, in Group 3. "Exceptionally,
3		3	important, in Group 3. "Exceptionally, agents for which the evidence of
3 4	carcinogenicity is inadequate in humans but		agents for which the evidence of
	carcinogenicity is inadequate in humans but sufficient in experimental animals, but	3	agents for which the evidence of carcinogenicity is inadequate in humans but
4	carcinogenicity is inadequate in humans but sufficient in experimental animals, but strong evidence that the mechanism of	3 4	agents for which the evidence of carcinogenicity is inadequate in humans but sufficient in experimental animals may be
4 5	carcinogenicity is inadequate in humans but sufficient in experimental animals, but strong evidence that the mechanism of carcinogenicity in experimental animals may	3 4 5	agents for which the evidence of carcinogenicity is inadequate in humans but sufficient in experimental animals may be placed in this category when there is strong
4 5 6 7	carcinogenicity is inadequate in humans but sufficient in experimental animals, but strong evidence that the mechanism of carcinogenicity in experimental animals may not operate in humans, or agents that don't	3 4 5 6 7	agents for which the evidence of carcinogenicity is inadequate in humans but sufficient in experimental animals may be placed in this category when there is strong evidence that the mechanism of
4 5 6	carcinogenicity is inadequate in humans but sufficient in experimental animals, but strong evidence that the mechanism of carcinogenicity in experimental animals may not operate in humans, or agents that don't fall into any other group.	3 4 5 6	agents for which the evidence of carcinogenicity is inadequate in humans but sufficient in experimental animals may be placed in this category when there is strong
4 5 6 7 8	carcinogenicity is inadequate in humans but sufficient in experimental animals, but strong evidence that the mechanism of carcinogenicity in experimental animals may not operate in humans, or agents that don't	3 4 5 6 7 8	agents for which the evidence of carcinogenicity is inadequate in humans but sufficient in experimental animals may be placed in this category when there is strong evidence that the mechanism of carcinogenicity in experimental animals does not operate in humans."
4 5 6 7 8 9	carcinogenicity is inadequate in humans but sufficient in experimental animals, but strong evidence that the mechanism of carcinogenicity in experimental animals may not operate in humans, or agents that don't fall into any other group. (Exhibit No. 25 marked) BY MR. ZELLERS:	3 4 5 6 7 8	agents for which the evidence of carcinogenicity is inadequate in humans but sufficient in experimental animals may be placed in this category when there is strong evidence that the mechanism of carcinogenicity in experimental animals does not operate in humans." Q. Are you done?
4 5 6 7 8 9	carcinogenicity is inadequate in humans but sufficient in experimental animals, but strong evidence that the mechanism of carcinogenicity in experimental animals may not operate in humans, or agents that don't fall into any other group. (Exhibit No. 25 marked) BY MR. ZELLERS: Q. So we have a clear record,	3 4 5 6 7 8 9	agents for which the evidence of carcinogenicity is inadequate in humans but sufficient in experimental animals may be placed in this category when there is strong evidence that the mechanism of carcinogenicity in experimental animals does not operate in humans." Q. Are you done?
4 5 6 7 8 9 10 11	carcinogenicity is inadequate in humans but sufficient in experimental animals, but strong evidence that the mechanism of carcinogenicity in experimental animals may not operate in humans, or agents that don't fall into any other group. (Exhibit No. 25 marked) BY MR. ZELLERS: Q. So we have a clear record, Deposition Exhibit 25 is the preamble to the	3 4 5 6 7 8 9 10	agents for which the evidence of carcinogenicity is inadequate in humans but sufficient in experimental animals may be placed in this category when there is strong evidence that the mechanism of carcinogenicity in experimental animals does not operate in humans." Q. Are you done? A. So yeah.
4 5 6 7 8 9 10 11	carcinogenicity is inadequate in humans but sufficient in experimental animals, but strong evidence that the mechanism of carcinogenicity in experimental animals may not operate in humans, or agents that don't fall into any other group. (Exhibit No. 25 marked) BY MR. ZELLERS: Q. So we have a clear record, Deposition Exhibit 25 is the preamble to the IARC monographs on the human evaluation of	3 4 5 6 7 8 9 10 11 12	agents for which the evidence of carcinogenicity is inadequate in humans but sufficient in experimental animals may be placed in this category when there is strong evidence that the mechanism of carcinogenicity in experimental animals does not operate in humans." Q. Are you done? A. So yeah. Q. Okay.
4 5 6 7 8 9 10 11 12 13	carcinogenicity is inadequate in humans but sufficient in experimental animals, but strong evidence that the mechanism of carcinogenicity in experimental animals may not operate in humans, or agents that don't fall into any other group. (Exhibit No. 25 marked) BY MR. ZELLERS: Q. So we have a clear record, Deposition Exhibit 25 is the preamble to the IARC monographs on the human evaluation of carcinogenic risks to humans. Is that right?	3 4 5 6 7 8 9 10 11 12 13	agents for which the evidence of carcinogenicity is inadequate in humans but sufficient in experimental animals may be placed in this category when there is strong evidence that the mechanism of carcinogenicity in experimental animals does not operate in humans." Q. Are you done? A. So yeah. Q. Okay. A. So Q. I don't want to have a
4 5 6 7 8 9 10 11 12 13 14	carcinogenicity is inadequate in humans but sufficient in experimental animals, but strong evidence that the mechanism of carcinogenicity in experimental animals may not operate in humans, or agents that don't fall into any other group. (Exhibit No. 25 marked) BY MR. ZELLERS: Q. So we have a clear record, Deposition Exhibit 25 is the preamble to the IARC monographs on the human evaluation of carcinogenic risks to humans. Is that right? A. That's what it says.	3 4 5 6 7 8 9 10 11 12 13 14	agents for which the evidence of carcinogenicity is inadequate in humans but sufficient in experimental animals may be placed in this category when there is strong evidence that the mechanism of carcinogenicity in experimental animals does not operate in humans." Q. Are you done? A. So yeah. Q. Okay. A. So
4 5 6 7 8 9 10 11 12 13 14 15 16	carcinogenicity is inadequate in humans but sufficient in experimental animals, but strong evidence that the mechanism of carcinogenicity in experimental animals may not operate in humans, or agents that don't fall into any other group. (Exhibit No. 25 marked) BY MR. ZELLERS: Q. So we have a clear record, Deposition Exhibit 25 is the preamble to the IARC monographs on the human evaluation of carcinogenic risks to humans. Is that right? A. That's what it says. MS. O'DELL: You said 25?	3 4 5 6 7 8 9 10 11 12 13 14 15	agents for which the evidence of carcinogenicity is inadequate in humans but sufficient in experimental animals may be placed in this category when there is strong evidence that the mechanism of carcinogenicity in experimental animals does not operate in humans." Q. Are you done? A. So yeah. Q. Okay. A. So Q. I don't want to have a discussion I mean, I just asked for the definition.
4 5 6 7 8 9 10 11 12 13 14 15	carcinogenicity is inadequate in humans but sufficient in experimental animals, but strong evidence that the mechanism of carcinogenicity in experimental animals may not operate in humans, or agents that don't fall into any other group. (Exhibit No. 25 marked) BY MR. ZELLERS: Q. So we have a clear record, Deposition Exhibit 25 is the preamble to the IARC monographs on the human evaluation of carcinogenic risks to humans. Is that right? A. That's what it says. MS. O'DELL: You said 25? MR. ZELLERS: 25.	3 4 5 6 7 8 9 10 11 12 13 14 15	agents for which the evidence of carcinogenicity is inadequate in humans but sufficient in experimental animals may be placed in this category when there is strong evidence that the mechanism of carcinogenicity in experimental animals does not operate in humans." Q. Are you done? A. So yeah. Q. Okay. A. So Q. I don't want to have a discussion I mean, I just asked for the definition. A. Well, your only picking half of
4 5 6 7 8 9 10 11 12 13 14 15 16 17	carcinogenicity is inadequate in humans but sufficient in experimental animals, but strong evidence that the mechanism of carcinogenicity in experimental animals may not operate in humans, or agents that don't fall into any other group. (Exhibit No. 25 marked) BY MR. ZELLERS: Q. So we have a clear record, Deposition Exhibit 25 is the preamble to the IARC monographs on the human evaluation of carcinogenic risks to humans. Is that right? A. That's what it says. MS. O'DELL: You said 25? MR. ZELLERS: 25. MS. O'DELL: Thank you.	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	agents for which the evidence of carcinogenicity is inadequate in humans but sufficient in experimental animals may be placed in this category when there is strong evidence that the mechanism of carcinogenicity in experimental animals does not operate in humans." Q. Are you done? A. So yeah. Q. Okay. A. So Q. I don't want to have a discussion I mean, I just asked for the definition. A. Well, your only picking half of it is part of the problem.
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	carcinogenicity is inadequate in humans but sufficient in experimental animals, but strong evidence that the mechanism of carcinogenicity in experimental animals may not operate in humans, or agents that don't fall into any other group. (Exhibit No. 25 marked) BY MR. ZELLERS: Q. So we have a clear record, Deposition Exhibit 25 is the preamble to the IARC monographs on the human evaluation of carcinogenic risks to humans. Is that right? A. That's what it says. MS. O'DELL: You said 25? MR. ZELLERS: 25. MS. O'DELL: Thank you. BY MR. ZELLERS:	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	agents for which the evidence of carcinogenicity is inadequate in humans but sufficient in experimental animals may be placed in this category when there is strong evidence that the mechanism of carcinogenicity in experimental animals does not operate in humans." Q. Are you done? A. So yeah. Q. Okay. A. So Q. I don't want to have a discussion I mean, I just asked for the definition. A. Well, your only picking half of it is part of the problem. Q. Is there anything else you want
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	carcinogenicity is inadequate in humans but sufficient in experimental animals, but strong evidence that the mechanism of carcinogenicity in experimental animals may not operate in humans, or agents that don't fall into any other group. (Exhibit No. 25 marked) BY MR. ZELLERS: Q. So we have a clear record, Deposition Exhibit 25 is the preamble to the IARC monographs on the human evaluation of carcinogenic risks to humans. Is that right? A. That's what it says. MS. O'DELL: You said 25? MR. ZELLERS: 25. MS. O'DELL: Thank you. BY MR. ZELLERS: Q. Are you familiar with this	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	agents for which the evidence of carcinogenicity is inadequate in humans but sufficient in experimental animals may be placed in this category when there is strong evidence that the mechanism of carcinogenicity in experimental animals does not operate in humans." Q. Are you done? A. So yeah. Q. Okay. A. So Q. I don't want to have a discussion I mean, I just asked for the definition. A. Well, your only picking half of it is part of the problem. Q. Is there anything else you want to read into the record for the definition of
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	carcinogenicity is inadequate in humans but sufficient in experimental animals, but strong evidence that the mechanism of carcinogenicity in experimental animals may not operate in humans, or agents that don't fall into any other group. (Exhibit No. 25 marked) BY MR. ZELLERS: Q. So we have a clear record, Deposition Exhibit 25 is the preamble to the IARC monographs on the human evaluation of carcinogenic risks to humans. Is that right? A. That's what it says. MS. O'DELL: You said 25? MR. ZELLERS: 25. MS. O'DELL: Thank you. BY MR. ZELLERS: Q. Are you familiar with this A. I have seen	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	agents for which the evidence of carcinogenicity is inadequate in humans but sufficient in experimental animals may be placed in this category when there is strong evidence that the mechanism of carcinogenicity in experimental animals does not operate in humans." Q. Are you done? A. So yeah. Q. Okay. A. So Q. I don't want to have a discussion I mean, I just asked for the definition. A. Well, your only picking half of it is part of the problem. Q. Is there anything else you want to read into the record for the definition of a Group 3 IARC chemical?
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	carcinogenicity is inadequate in humans but sufficient in experimental animals, but strong evidence that the mechanism of carcinogenicity in experimental animals may not operate in humans, or agents that don't fall into any other group. (Exhibit No. 25 marked) BY MR. ZELLERS: Q. So we have a clear record, Deposition Exhibit 25 is the preamble to the IARC monographs on the human evaluation of carcinogenic risks to humans. Is that right? A. That's what it says. MS. O'DELL: You said 25? MR. ZELLERS: 25. MS. O'DELL: Thank you. BY MR. ZELLERS: Q. Are you familiar with this A. I have seen Q preamble?	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	agents for which the evidence of carcinogenicity is inadequate in humans but sufficient in experimental animals may be placed in this category when there is strong evidence that the mechanism of carcinogenicity in experimental animals does not operate in humans." Q. Are you done? A. So yeah. Q. Okay. A. So Q. I don't want to have a discussion I mean, I just asked for the definition. A. Well, your only picking half of it is part of the problem. Q. Is there anything else you want to read into the record for the definition of a Group 3 IARC chemical? A. Yep.
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	carcinogenicity is inadequate in humans but sufficient in experimental animals, but strong evidence that the mechanism of carcinogenicity in experimental animals may not operate in humans, or agents that don't fall into any other group. (Exhibit No. 25 marked) BY MR. ZELLERS: Q. So we have a clear record, Deposition Exhibit 25 is the preamble to the IARC monographs on the human evaluation of carcinogenic risks to humans. Is that right? A. That's what it says. MS. O'DELL: You said 25? MR. ZELLERS: 25. MS. O'DELL: Thank you. BY MR. ZELLERS: Q. Are you familiar with this A. I have seen	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	agents for which the evidence of carcinogenicity is inadequate in humans but sufficient in experimental animals may be placed in this category when there is strong evidence that the mechanism of carcinogenicity in experimental animals does not operate in humans." Q. Are you done? A. So yeah. Q. Okay. A. So Q. I don't want to have a discussion I mean, I just asked for the definition. A. Well, your only picking half of it is part of the problem. Q. Is there anything else you want to read into the record for the definition of a Group 3 IARC chemical? A. Yep.

	Page 242		Page 244
1	A. The third part of that is agents	1	potential carcinogen is strike that.
2	that don't fall into any other group. Those	2	The first fragrance chemical
3	are the three criteria.	3	that you claim IARC has classified as a
4	Q. Group 2B under the IARC	4	potential carcinogen is styrene. Is that
5	classification is the agent is possibly	5	right?
6	carcinogenic to humans. Is that right?	6	A. Yeah.
7	A. There's three parts to Group 2B.	7	Q. Potential carcinogen is not a
8	Limited evidence of carcinogenicity in humans	8	category recognized by IARC. Is that right?
9	and less than sufficient evidence of	9	A. No. No. They have the
10	carcinogenicity in experimental animals or	10	categories that we
11	operative word "or" inadequate evidence of	11	Q. What we just talked about?
12	carcinogenicity in humans but sufficient	12	A. Yeah.
13	evidence of carcinogenicity in experimental	13	Q. Styrene has been classified by
14	animals.	14	IARC as a 2B chemical. Is that right?
15	And Part 3 is also an "or."	15	A. I believe that's correct. Yeah,
16	Inadequate evidence of carcinogenicity in	16	2B.
17	humans and less than sufficient evidence of	17	Q. As we discussed, this category
18	carcinogenicity in experimental	18	is used when there is limited evidence of
19	THE REPORTER: I'm sorry. Read	19	carcinogenicity in humans and less than
20	that read that slower again, the	20	sufficient evidence of carcinogenicity in
21	last	21	experimental animals. Is that right?
22	THE WITNESS: I'm sorry. I'll	22	MS. O'DELL: Object to the form.
23	start it	23	A. Again, only partially correct.
24	THE REPORTER: "In humans."	24	It can also be a circumstance where there's
	Page 243		Page 245
1	A. Inadequate evidence of	1	inadequate evidence of carcinogenicity in
2	carcinogenicity in humans and less than	2	humans but sufficient evidence of
2 3	carcinogenicity in humans and less than sufficient evidence of carcinogenicity in	2	humans but sufficient evidence of carcinogenicity in animals.
2 3 4	carcinogenicity in humans and less than sufficient evidence of carcinogenicity in experimental animals but with supporting	2 3 4	humans but sufficient evidence of carcinogenicity in animals. BY MR. ZELLERS:
2 3 4 5	carcinogenicity in humans and less than sufficient evidence of carcinogenicity in	2 3 4 5	humans but sufficient evidence of carcinogenicity in animals. BY MR. ZELLERS: Q. Would you agree IARC has not
2 3 4 5 6	carcinogenicity in humans and less than sufficient evidence of carcinogenicity in experimental animals but with supporting evidence from mechanistic and other relevant data.	2 3 4 5 6	humans but sufficient evidence of carcinogenicity in animals. BY MR. ZELLERS: Q. Would you agree IARC has not concluded that styrene is carcinogenic in
2 3 4 5	carcinogenicity in humans and less than sufficient evidence of carcinogenicity in experimental animals but with supporting evidence from mechanistic and other relevant data. BY MR. ZELLERS:	2 3 4 5 6 7	humans but sufficient evidence of carcinogenicity in animals. BY MR. ZELLERS: Q. Would you agree IARC has not concluded that styrene is carcinogenic in humans? Correct?
2 3 4 5 6 7 8	carcinogenicity in humans and less than sufficient evidence of carcinogenicity in experimental animals but with supporting evidence from mechanistic and other relevant data. BY MR. ZELLERS: Q. Group 2B, the classification by	2 3 4 5 6 7 8	humans but sufficient evidence of carcinogenicity in animals. BY MR. ZELLERS: Q. Would you agree IARC has not concluded that styrene is carcinogenic in humans? Correct? A. Okay. They've concluded it's in
2 3 4 5 6 7 8 9	carcinogenicity in humans and less than sufficient evidence of carcinogenicity in experimental animals but with supporting evidence from mechanistic and other relevant data. BY MR. ZELLERS: Q. Group 2B, the classification by IARC, is the agent is possibly carcinogenic	2 3 4 5 6 7 8	humans but sufficient evidence of carcinogenicity in animals. BY MR. ZELLERS: Q. Would you agree IARC has not concluded that styrene is carcinogenic in humans? Correct? A. Okay. They've concluded it's in Group 2B, which is possible carcinogenic to
2 3 4 5 6 7 8 9	carcinogenicity in humans and less than sufficient evidence of carcinogenicity in experimental animals but with supporting evidence from mechanistic and other relevant data. BY MR. ZELLERS: Q. Group 2B, the classification by IARC, is the agent is possibly carcinogenic to humans. Is that right?	2 3 4 5 6 7 8 9	humans but sufficient evidence of carcinogenicity in animals. BY MR. ZELLERS: Q. Would you agree IARC has not concluded that styrene is carcinogenic in humans? Correct? A. Okay. They've concluded it's in Group 2B, which is possible carcinogenic to humans.
2 3 4 5 6 7 8 9 10	carcinogenicity in humans and less than sufficient evidence of carcinogenicity in experimental animals but with supporting evidence from mechanistic and other relevant data. BY MR. ZELLERS: Q. Group 2B, the classification by IARC, is the agent is possibly carcinogenic to humans. Is that right? A. Yes.	2 3 4 5 6 7 8 9 10	humans but sufficient evidence of carcinogenicity in animals. BY MR. ZELLERS: Q. Would you agree IARC has not concluded that styrene is carcinogenic in humans? Correct? A. Okay. They've concluded it's in Group 2B, which is possible carcinogenic to humans. And I need to request a break
2 3 4 5 6 7 8 9 10 11	carcinogenicity in humans and less than sufficient evidence of carcinogenicity in experimental animals but with supporting evidence from mechanistic and other relevant data. BY MR. ZELLERS: Q. Group 2B, the classification by IARC, is the agent is possibly carcinogenic to humans. Is that right? A. Yes. Q. Group 2A chemicals are probably	2 3 4 5 6 7 8 9 10 11 12	humans but sufficient evidence of carcinogenicity in animals. BY MR. ZELLERS: Q. Would you agree IARC has not concluded that styrene is carcinogenic in humans? Correct? A. Okay. They've concluded it's in Group 2B, which is possible carcinogenic to humans. And I need to request a break because I need to blow my nose.
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	Dawa 246		Dawa 240
_	Page 246		Page 248
1	BY MR. ZELLERS:	1	MS. O'DELL: So you do not know
2	Q. Dr. Crowley, Deposition	2	the year of this publication?
3	Exhibit 26 is the IARC monograph with respect	3	MR. ZELLERS: I do not know the
4	to styrene. Is that correct?	4	year of this other than I believe it to
5	A. I think I found more than one of	5	be the most recent IARC monograph with
6	them. Which one is this? This is Volume 82?	6	respect to styrene. All I can tell you
7	Q. Is Exhibit 26 a an IARC	7	is it's after 1994, and it is part of
8	document?	8	the IARC monographs in Volume 82.
9	MS. O'DELL: Object to the form.	9	A. So I'm looking at the copy I
10	A. I'm going to take your word for	10	found, and it
11	it, but I can't say with certainty because I	11	BY MR. ZELLERS:
12	don't see IARC oh, there it is on the	12	Q. Oh, I'm sorry. So I can
13	second page. It says "IARC monograph	13	identify Deposition Exhibit 26 as a 2002 IARC
14	Volume 82." So, yeah, it sure looks like it.	14	monograph.
15	BY MR. ZELLERS:	15	A. Okay. So this is only part of
16	Q. As we discussed before, an	16	it, because I also considered this particular
17	ingredient can cause or contribute to the	17	document. It looks to me like you've
18	development of one type of cancer but not	18	provided me with copies up through 520
19	another type of cancer. Correct?	19	Page 522. The actual report I found was 114
20	A. Yeah, that's that's true.	20	pages long, and it contains it goes up to
21	Q. Isn't it true that in human	21	Page 550.
22	studies, styrene exposure has only been	22	Q. I have just given you, in
23	associated with an increased risk in	23	Exhibit 26, excerpts from the monograph. The
24	lymphatic and hematopoietic neoplasms? And	24	first page of the exhibit was 437. The last
	Tymphatic and hematopoletic heopiasins. Thid		mst page of the exhibit was 437. The last
	Page 247		Page 249
			rage 249
1	I'm looking at the IARC monograph,	1	
1 2	I'm looking at the IARC monograph, Exhibit 26, at Page 520.	1 2	page I provided you was 522, so I will
2	Exhibit 26, at Page 520.		page I provided you was 522, so I will acknowledge these are just excerpts
2 3	Exhibit 26, at Page 520. MS. O'DELL: Object to the form.	2	page I provided you was 522, so I will acknowledge these are just excerpts A. Okay.
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Exhibit 26, at Page 520. MS. O'DELL: Object to the form. A. Can you direct me to BY MR. ZELLERS: Q. Sure. A where on Page 520? I'm going to trust that you're faithful in reading it to me. The one thing I'd like to verify is there are multiple IARC examinations of styrene, so do you know which this is from Volume 82, but which year is that? Do you know? Q. Well, looking at the cover page of Exhibit 26, the IARC monograph states, "This substance was considered by previous working groups in 1978, 1987, and 1994. Since that time, new data have become available, and these have been incorporated into the monograph and taken into consideration in the present evaluation."	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	page I provided you was 522, so I will acknowledge these are just excerpts A. Okay. Q from the monograph. MS. O'DELL: Well, fair enough. Thank you for acknowledging that. And I'll just note for the record, so it's clear, Exhibit 26 skips from Page 438 to 517, and then it's 517 to 522, and the remainder is omitted. BY MR. ZELLERS: Q. Doctor, I'm ready to continue. Are you ready? A. All right. Q. I'm pointing you to, in Exhibit 26, the section on human carcinogenicity data, Section 5.2 that begins on Page 518. Do you see that? A. Yes. Q. Are you aware of any human studies associating styrene exposure with an increased risk of well, let me withdraw
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Exhibit 26, at Page 520. MS. O'DELL: Object to the form. A. Can you direct me to BY MR. ZELLERS: Q. Sure. A where on Page 520? I'm going to trust that you're faithful in reading it to me. The one thing I'd like to verify is there are multiple IARC examinations of styrene, so do you know which this is from Volume 82, but which year is that? Do you know? Q. Well, looking at the cover page of Exhibit 26, the IARC monograph states, "This substance was considered by previous working groups in 1978, 1987, and 1994. Since that time, new data have become available, and these have been incorporated into the monograph and taken into consideration in the present evaluation." That's what I know with respect	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	page I provided you was 522, so I will acknowledge these are just excerpts A. Okay. Q from the monograph. MS. O'DELL: Well, fair enough. Thank you for acknowledging that. And I'll just note for the record, so it's clear, Exhibit 26 skips from Page 438 to 517, and then it's 517 to 522, and the remainder is omitted. BY MR. ZELLERS: Q. Doctor, I'm ready to continue. Are you ready? A. All right. Q. I'm pointing you to, in Exhibit 26, the section on human carcinogenicity data, Section 5.2 that begins on Page 518. Do you see that? A. Yes. Q. Are you aware of any human studies associating styrene exposure with an increased risk of well, let me withdraw that question.
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	Page 250		Page 252
1	a human study relating to an increased risk	1	It's very fair for you've asked him
2	of lymphatic and hematopoietic neoplasm with	2	does the monograph refer to ovarian
3	styrene exposure. Is that generally	3	cancer, and it's very fair for him to
4	accurate?	4	be able to examine that document and
5	MS. O'DELL: Object to the form.	5	answer your question and not rely on
6	A. I mean, they they talk about	6	this truncated, incomplete exhibit.
7	a number of studies. If you go to Page 519,	7	MR. ZELLERS: The exhibit I
8	the second to last paragraph, "There have	8	provided to him was the summary of data
9	also been reports of increased risks of	9	reported in evaluation for human
10	rectal, pancreatic, and nervous system	10	carcinogenicity data.
11	cancers in some of the cohort and	11	BY MR. ZELLERS:
12	case-control studies. The numbers of cases	12	Q. But my question to you,
13	were quite small in these studies, and most	13	Dr. Crowley, is: Are you aware of any study
14	of the larger cohort studies have not yielded	14	that associates styrene exposure with an
15	similar findings. Many of the cohort studies	15	increased risk of ovarian cancer in humans?
16	did not examine these sites in detail."	16	MS. O'DELL: Object to the form.
17	So I don't think it's just	17	A. No.
18	limited to those.	18	BY MR. ZELLERS:
19	BY MR. ZELLERS:	19	Q. If I ask you the same questions
20	Q. Let me cut to the chase and ask	20	as I asked before, you don't know the dose or
21	you my question	21	the amount or the concentration of styrene in
22	A. Okay.	22	the baby powder or Shower to Shower product.
23	Q and then we can hopefully	23	Correct?
24	move along.	24	MS. O'DELL: Object to the form.
24	move along.		MS. O DELEE. Object to the form.
	Page 251		Page 253
1	There are no human studies that	1	A. Johnson & Johnson did not
2		_	A. Johnson & Johnson ald not
2	associate styrene exposure with an increased	2	provide that information to enable that kind
3	associate styrene exposure with an increased risk of ovarian cancer in humans. Is that		
	risk of ovarian cancer in humans. Is that	2	provide that information to enable that kind
3	risk of ovarian cancer in humans. Is that right?	2	provide that information to enable that kind of assessment. BY MR. ZELLERS:
3 4	risk of ovarian cancer in humans. Is that right? MS. O'DELL: Object to the form.	2 3 4	provide that information to enable that kind of assessment. BY MR. ZELLERS: Q. The same
3 4 5	risk of ovarian cancer in humans. Is that right? MS. O'DELL: Object to the form. A. I'm going to take my new copy,	2 3 4 5	provide that information to enable that kind of assessment. BY MR. ZELLERS: Q. The same A. It was requested.
3 4 5 6	risk of ovarian cancer in humans. Is that right? MS. O'DELL: Object to the form. A. I'm going to take my new copy, and I'm going to do a search.	2 3 4 5 6	provide that information to enable that kind of assessment. BY MR. ZELLERS: Q. The same A. It was requested. Q. The same statement: You do not
3 4 5 6 7	risk of ovarian cancer in humans. Is that right? MS. O'DELL: Object to the form. A. I'm going to take my new copy, and I'm going to do a search. BY MR. ZELLERS:	2 3 4 5 6 7	provide that information to enable that kind of assessment. BY MR. ZELLERS: Q. The same A. It was requested. Q. The same statement: You do not know the amount of exposure or the duration
3 4 5 6 7 8	risk of ovarian cancer in humans. Is that right? MS. O'DELL: Object to the form. A. I'm going to take my new copy, and I'm going to do a search. BY MR. ZELLERS:	2 3 4 5 6 7 8	provide that information to enable that kind of assessment. BY MR. ZELLERS: Q. The same A. It was requested. Q. The same statement: You do not
3 4 5 6 7 8 9	risk of ovarian cancer in humans. Is that right? MS. O'DELL: Object to the form. A. I'm going to take my new copy, and I'm going to do a search. BY MR. ZELLERS: Q. Again, I'm objecting to you	2 3 4 5 6 7 8	provide that information to enable that kind of assessment. BY MR. ZELLERS: Q. The same A. It was requested. Q. The same statement: You do not know the amount of exposure or the duration of exposure of any individual in this case.
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3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	risk of ovarian cancer in humans. Is that right? MS. O'DELL: Object to the form. A. I'm going to take my new copy, and I'm going to do a search. BY MR. ZELLERS: Q. Again, I'm objecting to you doing internet research to try to answer my questions. MS. O'DELL: Excuse me. He's not doing internet research. As he's noted to you, that he was provided, in Exhibit 26, an incomplete monograph, and he has the full monograph before him. And so it's very fair to answer your question	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	provide that information to enable that kind of assessment. BY MR. ZELLERS: Q. The same A. It was requested. Q. The same statement: You do not know the amount of exposure or the duration of exposure of any individual in this case. Correct? MS. O'DELL: Object to the form. A. The same answer: Information was requested, and Johnson & Johnson did not provide that to enable that kind of analysis. BY MR. ZELLERS: Q. Do you agree that the studies the human studies with respect to styrene are characterized by IARC as generally small, statistically unstable, and often based on subgroup analyses?
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3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	risk of ovarian cancer in humans. Is that right? MS. O'DELL: Object to the form. A. I'm going to take my new copy, and I'm going to do a search. BY MR. ZELLERS: Q. Again, I'm objecting to you doing internet research to try to answer my questions. MS. O'DELL: Excuse me. He's not doing internet research. As he's noted to you, that he was provided, in Exhibit 26, an incomplete monograph, and he has the full monograph before him. And so it's very fair to answer your question MR. ZELLERS: Ms. O'Dell. MS. O'DELL: No, no, no. Let me finish. MR. ZELLERS: If he is	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	provide that information to enable that kind of assessment. BY MR. ZELLERS: Q. The same A. It was requested. Q. The same statement: You do not know the amount of exposure or the duration of exposure of any individual in this case. Correct? MS. O'DELL: Object to the form. A. The same answer: Information was requested, and Johnson & Johnson did not provide that to enable that kind of analysis. BY MR. ZELLERS: Q. Do you agree that the studies the human studies with respect to styrene are characterized by IARC as generally small, statistically unstable, and often based on subgroup analyses? MS. O'DELL: Object to the form.

	Page 254		Page 256
1	BY MR. ZELLERS:	1	try to answer my questions as best you can.
2	Q. Sure. Take a look	2	Is it true that in animal
3	A. Which page?	3	studies styrene exposure has only been
4	Q. Yes. Page 520. So at the very	4	associated with an increased incidence of
5	top of 520 this, again, is in the section	5	pulmonary adenomas and carcinomas in mice?
6	on human carcinogenicity data IARC states,	6	MS. O'DELL: Object to the form.
7	"The increased risks for lymphatic and	7	A. Can you please
8	hematopoietic neoplasms observed in some of	8	BY MR. ZELLERS:
9	the studies are generally small,	9	Q. Sure.
10	statistically unstable, and often based on	10	A direct me to where you're
11	subgroup analyses. These findings are not	11	Q. Take a look at the IARC
12	very robust."	12	monograph. I'm now looking at the Section
13	Did I read that correctly?	13	5.3, Exhibit 26, Page 520, animal
14	A. I believe so.	14	carcinogenicity data.
15	Q. All right.	15	Do you see that?
16	A. I think one other thing we	16	A. Yes. So styrene was tested for
17	should talk about with respect to styrene is	17	carcinogenicity in mice in an inhalation
18	its metabolite.	18	study and four oral gavage studies. That's
19	MR. ZELLERS: Doctor, I'm going	19	what you're talking about. Right?
20	to object because I just need you to	20	Q. Yes.
21	answer my questions.	21	A. All right.
22	BY MR. ZELLERS:	22	Q. It was only associated with an
23	Q. And my question was: Did I read	23	increased incidence of pulmonary adenomas and
24	that correctly?	24	carcinomas in mice. Is that right?
	Page 255		Page 257
1	A. The answer	1	A. That's what it says. But let's
	71. The answer		11. That's what it says. Dut ict's
<i>\ \ \ \ \</i>	MS_O'DELL: Object to the form	2	•
2	MS. O'DELL: Object to the form. A. Yeah, You did read it	2 3	also jump down two paragraphs. "Styrene-7,8-
3	A. Yeah. You did read it	3	also jump down two paragraphs. "Styrene-7,8-oxide is a major metabolite of styrene and
3 4	A. Yeah. You did read it correctly, but as long as we're talking about	3 4	also jump down two paragraphs. "Styrene-7,8-oxide is a major metabolite of styrene and has been previously evaluated by IARC. The
3 4 5	A. Yeah. You did read it correctly, but as long as we're talking about the safety of styrene in human studies, we	3	also jump down two paragraphs. "Styrene-7,8-oxide is a major metabolite of styrene and has been previously evaluated by IARC. The evaluation at that time was that there was
3 4	A. Yeah. You did read it correctly, but as long as we're talking about the safety of styrene in human studies, we can't ignore its metabolite.	3 4 5	also jump down two paragraphs. "Styrene-7,8-oxide is a major metabolite of styrene and has been previously evaluated by IARC. The evaluation at that time was that there was sufficient evidence in experimental animals
3 4 5 6	A. Yeah. You did read it correctly, but as long as we're talking about the safety of styrene in human studies, we	3 4 5 6	also jump down two paragraphs. "Styrene-7,8-oxide is a major metabolite of styrene and has been previously evaluated by IARC. The evaluation at that time was that there was
3 4 5 6 7	A. Yeah. You did read it correctly, but as long as we're talking about the safety of styrene in human studies, we can't ignore its metabolite. Styrene-7,8-oxide has been	3 4 5 6 7	also jump down two paragraphs. "Styrene-7,8-oxide is a major metabolite of styrene and has been previously evaluated by IARC. The evaluation at that time was that there was sufficient evidence in experimental animals for the carcinogenicity of styrene-7,8-
3 4 5 6 7 8	A. Yeah. You did read it correctly, but as long as we're talking about the safety of styrene in human studies, we can't ignore its metabolite. Styrene-7,8-oxide has been implicated and found to be carcinogenic and	3 4 5 6 7 8	also jump down two paragraphs. "Styrene-7,8-oxide is a major metabolite of styrene and has been previously evaluated by IARC. The evaluation at that time was that there was sufficient evidence in experimental animals for the carcinogenicity of styrene-7,8-oxide."
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		Ι	
	Page 258		Page 260
1	a potential carcinogen. Is that right? And	1	carcinogenicity is inadequate in humans and
2	I'm looking at your report. I believe it was	2	inadequate or limited in animals, or the
3	Page 12.	3	evidence of carcinogenicity in humans is
4	A. Yes.	4	inadequate but sufficient in experimental
5	Q. d-limonene strike that.	5	animals with strong evidence that the
6	(Exhibit No. 27 marked)	6	mechanism doesn't relate. That's what the
7	BY MR. ZELLERS:	7	classification which we've read into the
8	Q. Exhibit 27 is again excerpts	8	record previously.
9	from the IARC monograph on d-Limonene?	9	Q. The summary of Group 3
10	A. I'm going to pull up the entire	10	classification by IARC is that the agent is
11	monograph.	11	not classifiable as to its carcinogenicity to
12	MS. O'DELL: So just for the	12	humans. Is that right?
13	record, Exhibit 27 starts at Page 307	13	MS. O'DELL: Object to form.
14	and goes to 308, then skips to 320	14	BY MR. ZELLERS:
15	and	15	Q. That is I'm reading from
16	MR. ZELLERS: It's just as with	16	Exhibit 25.
17	the styrene monograph. What I have	17	A. Yeah. There's three elements
18	done here is to photocopy the sections	18	that go into the group classifications, and
19	relating to human carcinogenicity data	19	you're only reading the first one. You're
20	and animal carcinogenicity data.	20	not reading all three.
21	MS. O'DELL: And feel free to	21	Q. Now, Doctor, in fairness
22	look at the whole monograph if you need	22	MS. O'DELL: Let him finish,
23	to, Dr. Crowley.	23	sir.
24	THE WITNESS: I have it.	24	A. Excuse me. I wasn't finished.
21	THE WITNESS. Thave it.	21	A. Lacuse me. I wash t hinshed.
	Page 259		Page 261
1		1	
1 2	BY MR. ZELLERS:	1 2	BY MR. ZELLERS:
2	BY MR. ZELLERS: Q. Dr. Crowley, IARC has classified	2	BY MR. ZELLERS: Q. You have to answer my question.
2 3	BY MR. ZELLERS: Q. Dr. Crowley, IARC has classified d-Limonene as a Group 3 agent. Is that	2	BY MR. ZELLERS: Q. You have to answer my question. I'm reading the title. Is that right?
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	BY MR. ZELLERS: Q. Dr. Crowley, IARC has classified d-Limonene as a Group 3 agent. Is that right? A. I believe that's correct. Q. The first sentence, as we read before, of the definition of a Group 3 classification means that the chemical is not classifiable as to its carcinogenicity in humans. Is that right? MS. O'DELL: Object to the form. BY MR. ZELLERS: Q. That's what the Group 3 classification means? A. That's correct, not classifiable. Q. Do you agree that IARC has not identified d-Limonene as a potential carcinogen, but really what IARC has done is determined there is no adequate evidence to say that it is a carcinogen? A. I would state that IARC has	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	BY MR. ZELLERS: Q. You have to answer my question. I'm reading the title. Is that right? I'm not reading the definitions. I'm reading the title. Did I read the title correctly? A. I think so. Q. All right. And I don't mean to unnecessarily cut you off, but we have had an extensive discussion, both of us, in terms of the definitions. Correct? A. Right. Q. All right. A. And we have. And I think that it's pretty clear that IARC considers both human and animal studies when they come up with these classifications. Q. Isn't it true that there are no human studies linking the use of d-Limonene to any type of cancer? A. The IARC monograph states that there was no data available to the working
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	BY MR. ZELLERS: Q. Dr. Crowley, IARC has classified d-Limonene as a Group 3 agent. Is that right? A. I believe that's correct. Q. The first sentence, as we read before, of the definition of a Group 3 classification means that the chemical is not classifiable as to its carcinogenicity in humans. Is that right? MS. O'DELL: Object to the form. BY MR. ZELLERS: Q. That's what the Group 3 classification means? A. That's correct, not classifiable. Q. Do you agree that IARC has not identified d-Limonene as a potential carcinogen, but really what IARC has done is determined there is no adequate evidence to say that it is a carcinogen?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	BY MR. ZELLERS: Q. You have to answer my question. I'm reading the title. Is that right? I'm not reading the definitions. I'm reading the title. Did I read the title correctly? A. I think so. Q. All right. And I don't mean to unnecessarily cut you off, but we have had an extensive discussion, both of us, in terms of the definitions. Correct? A. Right. Q. All right. A. And we have. And I think that it's pretty clear that IARC considers both human and animal studies when they come up with these classifications. Q. Isn't it true that there are no human studies linking the use of d-Limonene to any type of cancer? A. The IARC monograph states that

	Page 262		Page 264
1	Q. Isn't it also true that in	1	BY MR. ZELLERS:
2	animal studies the only potential association	2	Q. Well, I'll ask you a couple
3	between d-Limonene was found in renal tubular	3	specifically.
4	tumors?	4	MS. O'DELL: You know, that's a
5	A. Renal tubular adenomas and	5	little unfair.
6	carcinomas, but I believe that there was a	6	A. Do you trust me enough to
7	co-carcinogen effect demonstrated, if my	7	anticipate?
8	memory is correct, in a lung model.	8	BY MR. ZELLERS:
9	Q. In an animal study. Correct?	9	Q. No, I don't.
10	A. Yeah, that was an animal study.	10	MS. O'DELL: I would say, from
11	Q. Let me ask you a couple	11	my standpoint, listen to his questions,
12	A. So	12	answer the questions, and we'll be
13	Q. Are you done?	13	better off.
14	A. I was just going to say, you	14	BY MR. ZELLERS:
15	know, what that means is that if it's present	15	Q. It's true, correct, that there
16	with a known carcinogen, it promotes	16	are no human studies linking use of coumarin
17	carcinogenesis.	17	to any type of cancer?
18	Q. In animals. Correct? Or in	18	MS. O'DELL: Object to the form.
19	the in the particular animal study	19	A. I don't know that I would phrase
20	A. Yeah, in that particular study.	20	it that way. The IARC monograph says that no
21	MS. O'DELL: Object to the form.	21	data were available to the working group on
22	BY MR. ZELLERS:	22	studies of cancer in humans for for
23	Q. Coumarin. You state in your	23	coumarin.
24	report that coumarin is both a potential	24	
	1		
	Page 263		
	rage 203		Page 265
1	carcinogen and a possible carcinogen. Is	1	Page 265 BY MR. ZELLERS:
1 2		1 2	
	carcinogen and a possible carcinogen. Is		BY MR. ZELLERS: Q. Isn't it also true that in
2	carcinogen and a possible carcinogen. Is that right? A. I believe so.	2	BY MR. ZELLERS: Q. Isn't it also true that in animal studies, the only potential
2	carcinogen and a possible carcinogen. Is that right? A. I believe so.	2	BY MR. ZELLERS: Q. Isn't it also true that in animal studies, the only potential association that has been found is lung or
2 3 4	carcinogen and a possible carcinogen. Is that right? A. I believe so. Q. In fact, though, according to IARC, coumarin is also a Group 3 agent. Is	2 3 4	BY MR. ZELLERS: Q. Isn't it also true that in animal studies, the only potential association that has been found is lung or strike that are lung tumors,
2 3 4 5	carcinogen and a possible carcinogen. Is that right? A. I believe so. Q. In fact, though, according to	2 3 4 5	BY MR. ZELLERS: Q. Isn't it also true that in animal studies, the only potential association that has been found is lung or
2 3 4 5 6	carcinogen and a possible carcinogen. Is that right? A. I believe so. Q. In fact, though, according to IARC, coumarin is also a Group 3 agent. Is that right? A. That's correct, it's Group 3.	2 3 4 5 6	BY MR. ZELLERS: Q. Isn't it also true that in animal studies, the only potential association that has been found is lung or strike that are lung tumors, hepatocellular tumors, and renal tubal
2 3 4 5 6 7	carcinogen and a possible carcinogen. Is that right? A. I believe so. Q. In fact, though, according to IARC, coumarin is also a Group 3 agent. Is that right?	2 3 4 5 6 7	BY MR. ZELLERS: Q. Isn't it also true that in animal studies, the only potential association that has been found is lung or strike that are lung tumors, hepatocellular tumors, and renal tubal adenomas?
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	carcinogen and a possible carcinogen. Is that right? A. I believe so. Q. In fact, though, according to IARC, coumarin is also a Group 3 agent. Is that right? A. That's correct, it's Group 3. (Exhibit No. 28 marked) BY MR. ZELLERS: Q. Deposition Exhibit 28 is the IARC coumarin monograph excerpts. If I asked you all the same set of questions A. I'm probably going to give you the same answers. Q with respect to coumarin that I asked you with d-Limonene, we'd get the same answers. Correct? MS. O'DELL: Object A. Yes. MS. O'DELL: Object to the form. BY MR. ZELLERS:	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	BY MR. ZELLERS: Q. Isn't it also true that in animal studies, the only potential association that has been found is lung or strike that are lung tumors, hepatocellular tumors, and renal tubal adenomas? A. Alveolar/bronchiolar tumors, adenomas, and carcinomas in both males and females, hepatocellular adenomas in females, and marginal incidence in squamous cell papillomas and carcinomas of the stomach. Q. Those are all animal studies. Correct? A. Correct. I'm going to look at this second one. Hepatocellular tumors, and that's in mice. Now, I spent my New Year's down at the coast, and I did at the beach, and I did thumb through these, and I feel like there was another one that demonstrates that here, and I want to go look at it. In rats, non-neoplastic
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	carcinogen and a possible carcinogen. Is that right? A. I believe so. Q. In fact, though, according to IARC, coumarin is also a Group 3 agent. Is that right? A. That's correct, it's Group 3. (Exhibit No. 28 marked) BY MR. ZELLERS: Q. Deposition Exhibit 28 is the IARC coumarin monograph excerpts. If I asked you all the same set of questions A. I'm probably going to give you the same answers. Q with respect to coumarin that I asked you with d-Limonene, we'd get the same answers. Correct? MS. O'DELL: Object A. Yes. MS. O'DELL: Object to the form. BY MR. ZELLERS: Q. I'll ask you a couple	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	BY MR. ZELLERS: Q. Isn't it also true that in animal studies, the only potential association that has been found is lung or strike that are lung tumors, hepatocellular tumors, and renal tubal adenomas? A. Alveolar/bronchiolar tumors, adenomas, and carcinomas in both males and females, hepatocellular adenomas in females, and marginal incidence in squamous cell papillomas and carcinomas of the stomach. Q. Those are all animal studies. Correct? A. Correct. I'm going to look at this second one. Hepatocellular tumors, and that's in mice. Now, I spent my New Year's down at the coast, and I did at the beach, and I did thumb through these, and I feel like there was another one that demonstrates that here, and I want to go look at it.

		1	
	Page 266		Page 268
1	Q. What type of animal study was	1	IARC's assessment and classification, you'd
2	that?	2	give me the same answers. Correct?
3	A. That was a rat.	3	MS. O'DELL: Object to the form.
4	Q. With any of these animal	4	A. Yeah, so, I mean, the entire
5	studies, do you know the dose of the chemical	5	IARC monograph is lengthy. In the case of
6	that the animals were exposed to?	6	coumarin, they they actually have
7	A. Yeah. They're present here in	7	Section 4, other data relevant to an
8	the in the report.	8	evaluation of carcinogenicity and its
9	Q. Eugenol. Eugenol is strike	9	mechanism. And so there they looked at the
10	that.	10	pharmacokinetics; absorption, distribution,
11	You state in your report that	11	metabolism, and excretion. That's on
12	eugenol is both a potential carcinogen and a	12	Page 202 of the coumarin monograph, which I
13	possible carcinogen. Is that right?	13	don't think you had in your cut.
14	Page 12.	14	So, you know, there's a lot of
15	A. I'm actually on Page 21. I'm	15	factors that go into these carcinogenicity
16	sorry.	16	examinations by IARC or even NTP.
17	Coumarin and eugenol are not	17	BY MR. ZELLERS:
18	classifiable. I think that's the word I	18	Q. IARC is made up of a number of
19	used.	19	experts who come together to look at the
20	Q. In fact, as with d-Limonene and	20	carcinogenicity of certain chemicals. Is
21	coumarin, eugenol is classified by IARC as a	21	that right? And ingredients?
22	Group 3 agent. Is that right?	22	A. It's an expert group, yeah.
23	A. Yes.	23	Q. Yeah. And at least with respect
24	Q. At the risk of drawing another	24	to IARC and the experts that are a part of
	Q. The tile risk of drawing another		to frice and the experts that are a part of
	Page 267		Page 269
1	objection from counsel for the plaintiffs, if	1	IARC's analysis for d-Limonene, coumarin, and
2	I ask you the same questions regarding	2	eugenol, they have determined that those are
3	eugenol that I have asked relating to	3	all Group 3 chemicals, and the definition
4	coumarin and d-Limonene, as relates to the	4	or at least the statement of a Group 3 is
5	meaning of a Group 3 classification by IARC,		
6		5	that the agent is not classifiable as to its
	you'd give me the same answers. Right?	6	that the agent is not classifiable as to its carcinogenicity to humans. Correct?
7	you'd give me the same answers. Right? MS. O'DELL: Object to the form.		carcinogenicity to humans. Correct?
	MS. O'DELL: Object to the form.	6	carcinogenicity to humans. Correct? MS. O'DELL: Object to the form.
7	MS. O'DELL: Object to the form. And because I don't believe that's a	6 7	carcinogenicity to humans. Correct? MS. O'DELL: Object to the form. A. Yeah, that's right. And you've
7 8	MS. O'DELL: Object to the form. And because I don't believe that's a fair way to ask those questions. If	6 7 8	carcinogenicity to humans. Correct? MS. O'DELL: Object to the form. A. Yeah, that's right. And you've also got to consider what routes of
7 8 9	MS. O'DELL: Object to the form. And because I don't believe that's a	6 7 8 9	carcinogenicity to humans. Correct? MS. O'DELL: Object to the form. A. Yeah, that's right. And you've also got to consider what routes of administration they examined. Right?
7 8 9 10	MS. O'DELL: Object to the form. And because I don't believe that's a fair way to ask those questions. If you've got the questions, ask him, but,	6 7 8 9 10	carcinogenicity to humans. Correct? MS. O'DELL: Object to the form. A. Yeah, that's right. And you've also got to consider what routes of administration they examined. Right? So, you know, if you look at the
7 8 9 10 11	MS. O'DELL: Object to the form. And because I don't believe that's a fair way to ask those questions. If you've got the questions, ask him, but, you know	6 7 8 9 10 11	carcinogenicity to humans. Correct? MS. O'DELL: Object to the form. A. Yeah, that's right. And you've also got to consider what routes of administration they examined. Right? So, you know, if you look at the coumarin monograph, you don't find where it's
7 8 9 10 11 12	MS. O'DELL: Object to the form. And because I don't believe that's a fair way to ask those questions. If you've got the questions, ask him, but, you know BY MR. ZELLERS:	6 7 8 9 10 11 12	carcinogenicity to humans. Correct? MS. O'DELL: Object to the form. A. Yeah, that's right. And you've also got to consider what routes of administration they examined. Right? So, you know, if you look at the coumarin monograph, you don't find where it's been administered vaginally in any animal to
7 8 9 10 11 12 13	MS. O'DELL: Object to the form. And because I don't believe that's a fair way to ask those questions. If you've got the questions, ask him, but, you know BY MR. ZELLERS: Q. You can answer. MS. O'DELL: It's a different	6 7 8 9 10 11 12 13	carcinogenicity to humans. Correct? MS. O'DELL: Object to the form. A. Yeah, that's right. And you've also got to consider what routes of administration they examined. Right? So, you know, if you look at the coumarin monograph, you don't find where it's been administered vaginally in any animal to ascertain whether that would pose a risk.
7 8 9 10 11 12 13 14	MS. O'DELL: Object to the form. And because I don't believe that's a fair way to ask those questions. If you've got the questions, ask him, but, you know BY MR. ZELLERS: Q. You can answer. MS. O'DELL: It's a different it's a different monograph. It's a	6 7 8 9 10 11 12 13 14	carcinogenicity to humans. Correct? MS. O'DELL: Object to the form. A. Yeah, that's right. And you've also got to consider what routes of administration they examined. Right? So, you know, if you look at the coumarin monograph, you don't find where it's been administered vaginally in any animal to ascertain whether that would pose a risk. (Exhibit No. 29 marked)
7 8 9 10 11 12 13 14	MS. O'DELL: Object to the form. And because I don't believe that's a fair way to ask those questions. If you've got the questions, ask him, but, you know BY MR. ZELLERS: Q. You can answer. MS. O'DELL: It's a different it's a different monograph. It's a different circumstance, and he should	6 7 8 9 10 11 12 13 14 15	carcinogenicity to humans. Correct? MS. O'DELL: Object to the form. A. Yeah, that's right. And you've also got to consider what routes of administration they examined. Right? So, you know, if you look at the coumarin monograph, you don't find where it's been administered vaginally in any animal to ascertain whether that would pose a risk. (Exhibit No. 29 marked) BY MR. ZELLERS:
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7 8 9 10 11 12 13 14 15 16 17	MS. O'DELL: Object to the form. And because I don't believe that's a fair way to ask those questions. If you've got the questions, ask him, but, you know BY MR. ZELLERS: Q. You can answer. MS. O'DELL: It's a different it's a different monograph. It's a different circumstance, and he should be able to have the opportunity to clarify.	6 7 8 9 10 11 12 13 14 15 16 17	carcinogenicity to humans. Correct? MS. O'DELL: Object to the form. A. Yeah, that's right. And you've also got to consider what routes of administration they examined. Right? So, you know, if you look at the coumarin monograph, you don't find where it's been administered vaginally in any animal to ascertain whether that would pose a risk. (Exhibit No. 29 marked) BY MR. ZELLERS: Q. Exhibit 29 are the excerpts from the IARC eugenol monograph.
7 8 9 10 11 12 13 14 15 16 17 18	MS. O'DELL: Object to the form. And because I don't believe that's a fair way to ask those questions. If you've got the questions, ask him, but, you know BY MR. ZELLERS: Q. You can answer. MS. O'DELL: It's a different it's a different monograph. It's a different circumstance, and he should be able to have the opportunity to clarify. BY MR. ZELLERS:	6 7 8 9 10 11 12 13 14 15 16 17 18	carcinogenicity to humans. Correct? MS. O'DELL: Object to the form. A. Yeah, that's right. And you've also got to consider what routes of administration they examined. Right? So, you know, if you look at the coumarin monograph, you don't find where it's been administered vaginally in any animal to ascertain whether that would pose a risk. (Exhibit No. 29 marked) BY MR. ZELLERS: Q. Exhibit 29 are the excerpts from the IARC eugenol monograph. A. Is this Monograph 36? Yeah,
7 8 9 10 11 12 13 14 15 16 17 18 19 20	MS. O'DELL: Object to the form. And because I don't believe that's a fair way to ask those questions. If you've got the questions, ask him, but, you know BY MR. ZELLERS: Q. You can answer. MS. O'DELL: It's a different it's a different monograph. It's a different circumstance, and he should be able to have the opportunity to clarify. BY MR. ZELLERS: Q. And he does have every	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	carcinogenicity to humans. Correct? MS. O'DELL: Object to the form. A. Yeah, that's right. And you've also got to consider what routes of administration they examined. Right? So, you know, if you look at the coumarin monograph, you don't find where it's been administered vaginally in any animal to ascertain whether that would pose a risk. (Exhibit No. 29 marked) BY MR. ZELLERS: Q. Exhibit 29 are the excerpts from the IARC eugenol monograph. A. Is this Monograph 36? Yeah, Volume 36.
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	MS. O'DELL: Object to the form. And because I don't believe that's a fair way to ask those questions. If you've got the questions, ask him, but, you know BY MR. ZELLERS: Q. You can answer. MS. O'DELL: It's a different it's a different monograph. It's a different circumstance, and he should be able to have the opportunity to clarify. BY MR. ZELLERS: Q. And he does have every opportunity. But assuming I'm asking you all	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	carcinogenicity to humans. Correct? MS. O'DELL: Object to the form. A. Yeah, that's right. And you've also got to consider what routes of administration they examined. Right? So, you know, if you look at the coumarin monograph, you don't find where it's been administered vaginally in any animal to ascertain whether that would pose a risk. (Exhibit No. 29 marked) BY MR. ZELLERS: Q. Exhibit 29 are the excerpts from the IARC eugenol monograph. A. Is this Monograph 36? Yeah, Volume 36. So, again, the entire monograph
7 8 9 10 11 12 13 14 15 16 17 18 19 20	MS. O'DELL: Object to the form. And because I don't believe that's a fair way to ask those questions. If you've got the questions, ask him, but, you know BY MR. ZELLERS: Q. You can answer. MS. O'DELL: It's a different it's a different monograph. It's a different circumstance, and he should be able to have the opportunity to clarify. BY MR. ZELLERS: Q. And he does have every opportunity. But assuming I'm asking you all the same set of questions with respect to	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	carcinogenicity to humans. Correct? MS. O'DELL: Object to the form. A. Yeah, that's right. And you've also got to consider what routes of administration they examined. Right? So, you know, if you look at the coumarin monograph, you don't find where it's been administered vaginally in any animal to ascertain whether that would pose a risk. (Exhibit No. 29 marked) BY MR. ZELLERS: Q. Exhibit 29 are the excerpts from the IARC eugenol monograph. A. Is this Monograph 36? Yeah, Volume 36. So, again, the entire monograph that I have is 363 pages long.
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	MS. O'DELL: Object to the form. And because I don't believe that's a fair way to ask those questions. If you've got the questions, ask him, but, you know BY MR. ZELLERS: Q. You can answer. MS. O'DELL: It's a different it's a different monograph. It's a different circumstance, and he should be able to have the opportunity to clarify. BY MR. ZELLERS: Q. And he does have every opportunity. But assuming I'm asking you all	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	carcinogenicity to humans. Correct? MS. O'DELL: Object to the form. A. Yeah, that's right. And you've also got to consider what routes of administration they examined. Right? So, you know, if you look at the coumarin monograph, you don't find where it's been administered vaginally in any animal to ascertain whether that would pose a risk. (Exhibit No. 29 marked) BY MR. ZELLERS: Q. Exhibit 29 are the excerpts from the IARC eugenol monograph. A. Is this Monograph 36? Yeah, Volume 36. So, again, the entire monograph

PageID: 200414
Michael Crowley, Ph.D.

	Page 270		Page 272
1	A. I have my PDF open on my	1	monograph.
2	computer.	2	Q. If you
3	Q. All right. It's true, is it	3	A. Endometrial stromal polyps were
4	not, that there are no human studies linking	4	observed in treated females.
5		5	Q. Mice. Correct?
6	use of eugenol to any type of cancer? Is	6	A. Rats.
7	that right?	7	
	MS. O'DELL: Object to the form.		Q. Rats. That's what you see in
8	A. I'd need to take a closer look	8	your
9	at the monograph, if you don't mind.	9	A. Yeah, that's
10	BY MR. ZELLERS:	10	Q evaluation of the IARC
11	Q. Are you aware of any human	11	monograph. Right?
12	studies linking the use of eugenol to any	12	A. Yeah. That's on Page 84. And
13	type of cancer?	13	that's part of the female reproductive
14	MS. O'DELL: Object to form.	14	system.
15	A. I need to take a	15	Q. Do you know the dose of eugenol
16	THE REPORTER: Was there an	16	those animals those rats were exposed to?
17	objection? I couldn't hear you.	17	A. It was USP grade eugenol, so
18	MS. O'DELL: Yes.	18	greater than 99 percent purity at
19	BY MR. ZELLERS:	19	concentrations of it looks like 3,000 to
20	Q. When you're ready, I'd like to	20	6,000 migs per kig of diet for 103 weeks.
21	direct you to	21	There's also a skin application study here on
22	A. I'm still looking at the	22	mice that I want to take a quick look at.
23	monograph. Sorry.	23	So 19 mice had papillomas, three
24	So they found incidences of	24	had carcinomas following dermal application,
	•		
	Page 271		Page 273
1	hepatocellular carcinoma in males in an oral	1	and that was 0.1 sorry 150 micrograms.
2	administration study.	2	IP administration, which is
3	Q. In human males?	3	intraperitoneal, group of mice there, the
4	A. In mice.	4	study was no incidence of tumors in that
5	Q. Right. My question to you is:	5	one.
6	There are no human studies that were	6	They also looked at metabolites,
7	identified by IARC linking the use of eugenol	7	,,
		_ /	which is also done
8			which is also done O Okay Doctor I've not asked
8	to any type of cancer. Correct?	8	Q. Okay. Doctor, I've not asked
9	to any type of cancer. Correct? MS. O'DELL: Object to the form.	8 9	Q. Okay. Doctor, I've not asked you anything about metabolites. I asked you
9 10	to any type of cancer. Correct? MS. O'DELL: Object to the form. A. I'm looking. Is there a section	8 9 10	Q. Okay. Doctor, I've not asked you anything about metabolites. I asked you about human studies. I asked you about
9 10 11	to any type of cancer. Correct? MS. O'DELL: Object to the form. A. I'm looking. Is there a section on human? Because I haven't found it yet.	8 9 10 11	Q. Okay. Doctor, I've not asked you anything about metabolites. I asked you about human studies. I asked you about animal studies.
9 10 11 12	to any type of cancer. Correct? MS. O'DELL: Object to the form. A. I'm looking. Is there a section on human? Because I haven't found it yet. BY MR. ZELLERS:	8 9 10 11 12	Q. Okay. Doctor, I've not asked you anything about metabolites. I asked you about human studies. I asked you about animal studies. MS. O'DELL: Well, he's talking
9 10 11 12 13	to any type of cancer. Correct? MS. O'DELL: Object to the form. A. I'm looking. Is there a section on human? Because I haven't found it yet. BY MR. ZELLERS: Q. If you take a look at the	8 9 10 11 12 13	Q. Okay. Doctor, I've not asked you anything about metabolites. I asked you about human studies. I asked you about animal studies. MS. O'DELL: Well, he's talking about the animal studies, so that's a
9 10 11 12 13 14	to any type of cancer. Correct? MS. O'DELL: Object to the form. A. I'm looking. Is there a section on human? Because I haven't found it yet. BY MR. ZELLERS: Q. If you take a look at the monograph, Exhibit 29, go to Page 89, 4.3,	8 9 10 11 12 13 14	Q. Okay. Doctor, I've not asked you anything about metabolites. I asked you about human studies. I asked you about animal studies. MS. O'DELL: Well, he's talking about the animal studies, so that's a fair response. I mean, if you can
9 10 11 12 13 14 15	to any type of cancer. Correct? MS. O'DELL: Object to the form. A. I'm looking. Is there a section on human? Because I haven't found it yet. BY MR. ZELLERS: Q. If you take a look at the monograph, Exhibit 29, go to Page 89, 4.3, human data, states and this is the	8 9 10 11 12 13 14 15	Q. Okay. Doctor, I've not asked you anything about metabolites. I asked you about human studies. I asked you about animal studies. MS. O'DELL: Well, he's talking about the animal studies, so that's a fair response. I mean, if you can finish your answer, sir.
9 10 11 12 13 14 15 16	to any type of cancer. Correct? MS. O'DELL: Object to the form. A. I'm looking. Is there a section on human? Because I haven't found it yet. BY MR. ZELLERS: Q. If you take a look at the monograph, Exhibit 29, go to Page 89, 4.3, human data, states and this is the A. Yep.	8 9 10 11 12 13 14 15 16	Q. Okay. Doctor, I've not asked you anything about metabolites. I asked you about human studies. I asked you about animal studies. MS. O'DELL: Well, he's talking about the animal studies, so that's a fair response. I mean, if you can finish your answer, sir. A. Yeah. And metabolites are
9 10 11 12 13 14 15 16 17	to any type of cancer. Correct? MS. O'DELL: Object to the form. A. I'm looking. Is there a section on human? Because I haven't found it yet. BY MR. ZELLERS: Q. If you take a look at the monograph, Exhibit 29, go to Page 89, 4.3, human data, states and this is the A. Yep. Q IARC monograph.	8 9 10 11 12 13 14 15 16 17	Q. Okay. Doctor, I've not asked you anything about metabolites. I asked you about human studies. I asked you about animal studies. MS. O'DELL: Well, he's talking about the animal studies, so that's a fair response. I mean, if you can finish your answer, sir. A. Yeah. And metabolites are considered. Right? I mean, what the body
9 10 11 12 13 14 15 16 17	to any type of cancer. Correct? MS. O'DELL: Object to the form. A. I'm looking. Is there a section on human? Because I haven't found it yet. BY MR. ZELLERS: Q. If you take a look at the monograph, Exhibit 29, go to Page 89, 4.3, human data, states and this is the A. Yep. Q IARC monograph. A. That's correct. There is no	8 9 10 11 12 13 14 15 16 17	Q. Okay. Doctor, I've not asked you anything about metabolites. I asked you about human studies. I asked you about animal studies. MS. O'DELL: Well, he's talking about the animal studies, so that's a fair response. I mean, if you can finish your answer, sir. A. Yeah. And metabolites are considered. Right? I mean, what the body turns it into matters, so
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9 10 11 12 13 14 15 16 17 18 19 20 21 22	to any type of cancer. Correct? MS. O'DELL: Object to the form. A. I'm looking. Is there a section on human? Because I haven't found it yet. BY MR. ZELLERS: Q. If you take a look at the monograph, Exhibit 29, go to Page 89, 4.3, human data, states and this is the A. Yep. Q IARC monograph. A. That's correct. There is no human data. Q. With respect to animal studies, the only potential association that has been found relates to liver tumors. Is that	8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. Okay. Doctor, I've not asked you anything about metabolites. I asked you about human studies. I asked you about animal studies. MS. O'DELL: Well, he's talking about the animal studies, so that's a fair response. I mean, if you can finish your answer, sir. A. Yeah. And metabolites are considered. Right? I mean, what the body turns it into matters, so BY MR. ZELLERS: Q. Okay, Doctor. I want to finish, so please finish your answer and let me ask my next question.
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PageID: 200415
Michael Crowley, Ph.D.

	Daga 274		Dogo 276
	Page 274		Page 276
1	if you	1	the same so this is from 101. Mine is
2	A. Yeah. I mean, each of these	2	also 101. Yeah.
3	IARC monographs needs to be considered in	3	BY MR. ZELLERS:
4	whole, not just which parts suit your	4	Q. We're in sync?
5	position, that the absence of human studies	5	A. Yeah. Mine you know, again,
6	means that somehow these are safe. That's	6	I think you've got snips here. You've only
7	not the conclusion that a person of skill in	7	got a few pages of the entire report.
8	the art would conclude.	8	Q. You, though, have the full
9	So there were carcinogenicity	9	report on
10	studies on the metabolites, and other	10	A. I do.
11	bio-relevant factors are considered.	11	Q your computer. Is that
12	BY MR. ZELLERS:	12	right?
13	Q. You're referring to the animal	13	A. I do.
14	study in rats. Is that right?	14	Q. IARC has classified benzophenone
15	A. Mice, rats, guinea pigs. They	15	as a 2B chemical. Is that right?
16	did IV admin of multiple different doses in	16	A. I believe so.
17	dogs. All of that is considered when these	17	Q. 2B, according to IARC, means the
18	monographs are generated.	18	agent is possibly carcinogenic to humans. Is
19	Q. And after all of that analysis	19	that right?
20	and after all of that review, the IARC expert	20	A. Yes, 2B means possibly
21	panel determined that eugenol was a Group 3	21	carcinogenic to humans.
22	agent that was not classifiable as to its	22	Q. It's true, is it not, that there
23	carcinogenicity to humans. Correct?	23	are no human studies linking the use of
24	A. That was the conclusion, yeah.	24	benzophenone to any type of cancer. Correct?
	11. That was the conclusion, year.		senzophenone to any type of cancer. Correct.
	Page 275		Page 277
1	Page 275 Q. Let me	1	Page 277 MS. O'DELL: Object to the form.
1 2		1 2	
	Q. Let me	l	MS. O'DELL: Object to the form.
2	Q. Let me A. And the conclusion in the monograph actually states it very clearly as	2	MS. O'DELL: Object to the form. A. Yeah, the IARC monograph says no
2 3	Q. Let meA. And the conclusion in the	2	MS. O'DELL: Object to the form. A. Yeah, the IARC monograph says no data were available to the working group.
2 3 4	Q. Let me A. And the conclusion in the monograph actually states it very clearly as to why they drew that conclusion. It says,	2 3 4	MS. O'DELL: Object to the form. A. Yeah, the IARC monograph says no data were available to the working group. BY MR. ZELLERS:
2 3 4 5	Q. Let me A. And the conclusion in the monograph actually states it very clearly as to why they drew that conclusion. It says, "The evaluation is there is limited evidence for carcinogenicity of eugenol in	2 3 4 5	MS. O'DELL: Object to the form. A. Yeah, the IARC monograph says no data were available to the working group. BY MR. ZELLERS: Q. With respect to animal studies,
2 3 4 5 6	Q. Let me A. And the conclusion in the monograph actually states it very clearly as to why they drew that conclusion. It says, "The evaluation is there is limited evidence for carcinogenicity of eugenol in experimental animals. In the absence of	2 3 4 5 6	MS. O'DELL: Object to the form. A. Yeah, the IARC monograph says no data were available to the working group. BY MR. ZELLERS: Q. With respect to animal studies, benzophenone exposure has only been
2 3 4 5 6 7	Q. Let me A. And the conclusion in the monograph actually states it very clearly as to why they drew that conclusion. It says, "The evaluation is there is limited evidence for carcinogenicity of eugenol in experimental animals. In the absence of epidemiological data, no evaluation can be	2 3 4 5 6 7	MS. O'DELL: Object to the form. A. Yeah, the IARC monograph says no data were available to the working group. BY MR. ZELLERS: Q. With respect to animal studies, benzophenone exposure has only been associated with an increased incidence of
2 3 4 5 6 7 8	Q. Let me A. And the conclusion in the monograph actually states it very clearly as to why they drew that conclusion. It says, "The evaluation is there is limited evidence for carcinogenicity of eugenol in experimental animals. In the absence of	2 3 4 5 6 7 8	MS. O'DELL: Object to the form. A. Yeah, the IARC monograph says no data were available to the working group. BY MR. ZELLERS: Q. With respect to animal studies, benzophenone exposure has only been associated with an increased incidence of hepatocellular cancer, histiocystic sarcoma, leukemia, and renal tubal adenoma. Correct?
2 3 4 5 6 7 8 9	Q. Let me A. And the conclusion in the monograph actually states it very clearly as to why they drew that conclusion. It says, "The evaluation is there is limited evidence for carcinogenicity of eugenol in experimental animals. In the absence of epidemiological data, no evaluation can be made of the carcinogenicity of eugenol in humans."	2 3 4 5 6 7 8	MS. O'DELL: Object to the form. A. Yeah, the IARC monograph says no data were available to the working group. BY MR. ZELLERS: Q. With respect to animal studies, benzophenone exposure has only been associated with an increased incidence of hepatocellular cancer, histiocystic sarcoma, leukemia, and renal tubal adenoma. Correct?
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2 3 4 5 6 7 8 9 10	Q. Let me A. And the conclusion in the monograph actually states it very clearly as to why they drew that conclusion. It says, "The evaluation is there is limited evidence for carcinogenicity of eugenol in experimental animals. In the absence of epidemiological data, no evaluation can be made of the carcinogenicity of eugenol in humans." Q. Let me ask you now about	2 3 4 5 6 7 8 9 10	MS. O'DELL: Object to the form. A. Yeah, the IARC monograph says no data were available to the working group. BY MR. ZELLERS: Q. With respect to animal studies, benzophenone exposure has only been associated with an increased incidence of hepatocellular cancer, histiocystic sarcoma, leukemia, and renal tubal adenoma. Correct? A. Let's see here. Hepatoblastoma in male mice, histiocystic sarcoma in
2 3 4 5 6 7 8 9 10 11	Q. Let me A. And the conclusion in the monograph actually states it very clearly as to why they drew that conclusion. It says, "The evaluation is there is limited evidence for carcinogenicity of eugenol in experimental animals. In the absence of epidemiological data, no evaluation can be made of the carcinogenicity of eugenol in humans." Q. Let me ask you now about benzophenone. That is the last agent that	2 3 4 5 6 7 8 9 10 11 12	MS. O'DELL: Object to the form. A. Yeah, the IARC monograph says no data were available to the working group. BY MR. ZELLERS: Q. With respect to animal studies, benzophenone exposure has only been associated with an increased incidence of hepatocellular cancer, histiocystic sarcoma, leukemia, and renal tubal adenoma. Correct? A. Let's see here. Hepatoblastoma in male mice, histiocystic sarcoma in females female mice, increased incidence
2 3 4 5 6 7 8 9 10 11 12 13	Q. Let me A. And the conclusion in the monograph actually states it very clearly as to why they drew that conclusion. It says, "The evaluation is there is limited evidence for carcinogenicity of eugenol in experimental animals. In the absence of epidemiological data, no evaluation can be made of the carcinogenicity of eugenol in humans." Q. Let me ask you now about benzophenone. That is the last agent that you cite or reference IARC as a source for	2 3 4 5 6 7 8 9 10 11 12 13	MS. O'DELL: Object to the form. A. Yeah, the IARC monograph says no data were available to the working group. BY MR. ZELLERS: Q. With respect to animal studies, benzophenone exposure has only been associated with an increased incidence of hepatocellular cancer, histiocystic sarcoma, leukemia, and renal tubal adenoma. Correct? A. Let's see here. Hepatoblastoma in male mice, histiocystic sarcoma in females female mice, increased incidence of mononuclear cell leukemia in male and
2 3 4 5 6 7 8 9 10 11 12 13 14	Q. Let me A. And the conclusion in the monograph actually states it very clearly as to why they drew that conclusion. It says, "The evaluation is there is limited evidence for carcinogenicity of eugenol in experimental animals. In the absence of epidemiological data, no evaluation can be made of the carcinogenicity of eugenol in humans." Q. Let me ask you now about benzophenone. That is the last agent that you cite or reference IARC as a source for its carcinogenicity. Is that right?	2 3 4 5 6 7 8 9 10 11 12 13 14	MS. O'DELL: Object to the form. A. Yeah, the IARC monograph says no data were available to the working group. BY MR. ZELLERS: Q. With respect to animal studies, benzophenone exposure has only been associated with an increased incidence of hepatocellular cancer, histiocystic sarcoma, leukemia, and renal tubal adenoma. Correct? A. Let's see here. Hepatoblastoma in male mice, histiocystic sarcoma in females female mice, increased incidence of mononuclear cell leukemia in male and female rats. Renal tube adenoma in male
2 3 4 5 6 7 8 9 10 11 12 13 14 15	Q. Let me A. And the conclusion in the monograph actually states it very clearly as to why they drew that conclusion. It says, "The evaluation is there is limited evidence for carcinogenicity of eugenol in experimental animals. In the absence of epidemiological data, no evaluation can be made of the carcinogenicity of eugenol in humans." Q. Let me ask you now about benzophenone. That is the last agent that you cite or reference IARC as a source for its carcinogenicity. Is that right? A. I think I also cited the national the NTP technical report, which	2 3 4 5 6 7 8 9 10 11 12 13 14 15	MS. O'DELL: Object to the form. A. Yeah, the IARC monograph says no data were available to the working group. BY MR. ZELLERS: Q. With respect to animal studies, benzophenone exposure has only been associated with an increased incidence of hepatocellular cancer, histiocystic sarcoma, leukemia, and renal tubal adenoma. Correct? A. Let's see here. Hepatoblastoma in male mice, histiocystic sarcoma in females female mice, increased incidence of mononuclear cell leukemia in male and female rats. Renal tube adenoma in male rats, histiocytic sarcoma in female rats, and
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Q. Let me A. And the conclusion in the monograph actually states it very clearly as to why they drew that conclusion. It says, "The evaluation is there is limited evidence for carcinogenicity of eugenol in experimental animals. In the absence of epidemiological data, no evaluation can be made of the carcinogenicity of eugenol in humans." Q. Let me ask you now about benzophenone. That is the last agent that you cite or reference IARC as a source for its carcinogenicity. Is that right? A. I think I also cited the	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	MS. O'DELL: Object to the form. A. Yeah, the IARC monograph says no data were available to the working group. BY MR. ZELLERS: Q. With respect to animal studies, benzophenone exposure has only been associated with an increased incidence of hepatocellular cancer, histiocystic sarcoma, leukemia, and renal tubal adenoma. Correct? A. Let's see here. Hepatoblastoma in male mice, histiocystic sarcoma in females female mice, increased incidence of mononuclear cell leukemia in male and female rats. Renal tube adenoma in male rats, histiocytic sarcoma in female rats, and tumors in the kidney, yeah.
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Q. Let me A. And the conclusion in the monograph actually states it very clearly as to why they drew that conclusion. It says, "The evaluation is there is limited evidence for carcinogenicity of eugenol in experimental animals. In the absence of epidemiological data, no evaluation can be made of the carcinogenicity of eugenol in humans." Q. Let me ask you now about benzophenone. That is the last agent that you cite or reference IARC as a source for its carcinogenicity. Is that right? A. I think I also cited the national the NTP technical report, which is 267 pages long, and Q. Take a look at A the IARC monograph.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	MS. O'DELL: Object to the form. A. Yeah, the IARC monograph says no data were available to the working group. BY MR. ZELLERS: Q. With respect to animal studies, benzophenone exposure has only been associated with an increased incidence of hepatocellular cancer, histiocystic sarcoma, leukemia, and renal tubal adenoma. Correct? A. Let's see here. Hepatoblastoma in male mice, histiocystic sarcoma in females female mice, increased incidence of mononuclear cell leukemia in male and female rats. Renal tube adenoma in male rats, histiocytic sarcoma in female rats, and tumors in the kidney, yeah. Q. There are no animal studies linking the use of benzophenone with an increased risk of ovarian cancer. Correct?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Q. Let me A. And the conclusion in the monograph actually states it very clearly as to why they drew that conclusion. It says, "The evaluation is there is limited evidence for carcinogenicity of eugenol in experimental animals. In the absence of epidemiological data, no evaluation can be made of the carcinogenicity of eugenol in humans." Q. Let me ask you now about benzophenone. That is the last agent that you cite or reference IARC as a source for its carcinogenicity. Is that right? A. I think I also cited the national the NTP technical report, which is 267 pages long, and Q. Take a look at A the IARC monograph. Q. All right. Take a look, if you	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	MS. O'DELL: Object to the form. A. Yeah, the IARC monograph says no data were available to the working group. BY MR. ZELLERS: Q. With respect to animal studies, benzophenone exposure has only been associated with an increased incidence of hepatocellular cancer, histiocystic sarcoma, leukemia, and renal tubal adenoma. Correct? A. Let's see here. Hepatoblastoma in male mice, histiocystic sarcoma in females female mice, increased incidence of mononuclear cell leukemia in male and female rats. Renal tube adenoma in male rats, histiocytic sarcoma in female rats, and tumors in the kidney, yeah. Q. There are no animal studies linking the use of benzophenone with an increased risk of ovarian cancer. Correct? MS. O'DELL: Object to the form.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Q. Let me A. And the conclusion in the monograph actually states it very clearly as to why they drew that conclusion. It says, "The evaluation is there is limited evidence for carcinogenicity of eugenol in experimental animals. In the absence of epidemiological data, no evaluation can be made of the carcinogenicity of eugenol in humans." Q. Let me ask you now about benzophenone. That is the last agent that you cite or reference IARC as a source for its carcinogenicity. Is that right? A. I think I also cited the national the NTP technical report, which is 267 pages long, and Q. Take a look at A the IARC monograph. Q. All right. Take a look, if you will, at the IARC monograph, the excerpts,	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	MS. O'DELL: Object to the form. A. Yeah, the IARC monograph says no data were available to the working group. BY MR. ZELLERS: Q. With respect to animal studies, benzophenone exposure has only been associated with an increased incidence of hepatocellular cancer, histiocystic sarcoma, leukemia, and renal tubal adenoma. Correct? A. Let's see here. Hepatoblastoma in male mice, histiocystic sarcoma in females female mice, increased incidence of mononuclear cell leukemia in male and female rats. Renal tube adenoma in male rats, histiocytic sarcoma in female rats, and tumors in the kidney, yeah. Q. There are no animal studies linking the use of benzophenone with an increased risk of ovarian cancer. Correct? MS. O'DELL: Object to the form. A. Just a moment. There's more
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q. Let me A. And the conclusion in the monograph actually states it very clearly as to why they drew that conclusion. It says, "The evaluation is there is limited evidence for carcinogenicity of eugenol in experimental animals. In the absence of epidemiological data, no evaluation can be made of the carcinogenicity of eugenol in humans." Q. Let me ask you now about benzophenone. That is the last agent that you cite or reference IARC as a source for its carcinogenicity. Is that right? A. I think I also cited the national the NTP technical report, which is 267 pages long, and Q. Take a look at A the IARC monograph. Q. All right. Take a look, if you will, at the IARC monograph, the excerpts, relating to benzophenone, Exhibit 30.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	MS. O'DELL: Object to the form. A. Yeah, the IARC monograph says no data were available to the working group. BY MR. ZELLERS: Q. With respect to animal studies, benzophenone exposure has only been associated with an increased incidence of hepatocellular cancer, histiocystic sarcoma, leukemia, and renal tubal adenoma. Correct? A. Let's see here. Hepatoblastoma in male mice, histiocystic sarcoma in females female mice, increased incidence of mononuclear cell leukemia in male and female rats. Renal tube adenoma in male rats, histiocytic sarcoma in female rats, and tumors in the kidney, yeah. Q. There are no animal studies linking the use of benzophenone with an increased risk of ovarian cancer. Correct? MS. O'DELL: Object to the form. A. Just a moment. There's more because don't forget there's an NTP report,
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. Let me A. And the conclusion in the monograph actually states it very clearly as to why they drew that conclusion. It says, "The evaluation is there is limited evidence for carcinogenicity of eugenol in experimental animals. In the absence of epidemiological data, no evaluation can be made of the carcinogenicity of eugenol in humans." Q. Let me ask you now about benzophenone. That is the last agent that you cite or reference IARC as a source for its carcinogenicity. Is that right? A. I think I also cited the national the NTP technical report, which is 267 pages long, and Q. Take a look at A the IARC monograph. Q. All right. Take a look, if you will, at the IARC monograph, the excerpts,	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	MS. O'DELL: Object to the form. A. Yeah, the IARC monograph says no data were available to the working group. BY MR. ZELLERS: Q. With respect to animal studies, benzophenone exposure has only been associated with an increased incidence of hepatocellular cancer, histiocystic sarcoma, leukemia, and renal tubal adenoma. Correct? A. Let's see here. Hepatoblastoma in male mice, histiocystic sarcoma in females female mice, increased incidence of mononuclear cell leukemia in male and female rats. Renal tube adenoma in male rats, histiocytic sarcoma in female rats, and tumors in the kidney, yeah. Q. There are no animal studies linking the use of benzophenone with an increased risk of ovarian cancer. Correct? MS. O'DELL: Object to the form. A. Just a moment. There's more

Michael Crowley, Ph.D.

Page 278 Page 280 1 So according to the National 1 feed study controls, and the incidence in the 2 Toxicology Program, male rats receiving 2 625 part per million group exceeded the 3 3 benzophenone had severe kidney nephropathy, historical control range for all routes. kidney tumors, and leukemia. Female rats had 4 4 In the current two-year study, 5 higher rates of leukemia, liver tumors, 5 only females were affected, and the liver and 6 6 increased severities of kidney nephrology, lung were involved in all affected females. 7 metaplasia, epithelia of the nose and 7 The histiocytic sarcomas were 8 hyperplasia of the spleen. Some female mice 8 highly invasive in all three 1,250 PPM mice. 9 also developed rare histiocytic sarcomas. I 9 Multiple organs throughout the body had 10 believe those were associated with the 10 neoplastic histiocytic legions; ovaries, repro- -- female reproductive organs. uterus, spleen, adrenal gland, kidney, 11 11 12 urinary bladder, and multiple lymph nodes The NTP program also concluded 12 that benzophenone caused cancer -- kidney 13 were affected in all three animals. 13 cancer in male rats, liver tumors in male 14 14 MR. ZELLERS: Move to strike as 15 mice, and histiocytic sarcomas in female 15 nonresponsive. 16 mice. 16 BY MR. ZELLERS: 17 BY MR. ZELLERS: 17 O. Doctor --18 Q. At least based upon the 18 MS. O'DELL: I oppose the 19 information you have available to you and 19 motion. 20 that you're reading from, there is not an 20 BY MR. ZELLERS: 21 animal study cited by NTP that associates 21 O. On Page --THE REPORTER: I did not hear 22 benzophenone in animals with an increased 22 23 risk of ovarian cancer. Correct? 23 24 A. Yeah, so, you know --24 MS. O'DELL: I oppose the Page 279 Page 281 1 O. Is that correct? motion. 2 That's correct, but the question 2 BY MR. ZELLERS: really requires some qualification. There is 3 3 Q. On Page 21, you state that the no ovarian cancer animal model that I am 4 Environmental Protection Agency designated 4 5 aware of. And if you look in the report 5 p-Cresol, or para-Cresol, as possibly 6 issued by Canada and their health ministry, 6 carcinogenic. Is that right? 7 they state that. There is no animal model 7 Yes. A. 8 for ovarian cancer. 8 Q. Do you know what studies the EPA 9 Q. Are you ready for my next 9 reviewed in determining that p-Cresol is a 10 question? 10 potential carcinogen? 11 A. Yes. Just one moment, please. 11 A. I believe that I found a report 12 You were asking about 12 to support that, and it was the -- also in 13 benzophenone, and I knew there was an 13 the NTP report. I also found "The tumorassociation with ovaries. So this is from 14 14 promoting -- tumor-promoting action of phenol 15 the NTP report, and I'm going to read it. 15 and related compounds" --16 Histiocytic sarcoma in females. There was a 16 THE REPORTER: Doctor. 17 positive trend in the incidence of 17 THE WITNESS: I'm sorry. histiocytic sarcomas, all organs. The 18 18 THE REPORTER: I don't know if 19 evidence in 625 part per million females was 19 I'm going to have that, so can you try 20 significantly greater than that in the 20 to read a little slower? 21 controls. 21 THE WITNESS: Yeah. 22 That's from Table 17 in D3 of 22 A. The report titled "The 23 that particular report. Only two histiocytic 23 tumor-promoting action of phenol and related 24 sarcomas have been observed in historical 24 compounds for mouse skin" by Boutwell and

PageID: 200417
Michael Crowley, Ph.D.

	Page 282		Page 284
1	Bosch.	1	studies are done in animals.
2	Q. Again, you're referencing animal	2	Q. Do you know whether
3	studies. Correct?	3	carcinogenicity with p-Cresol has been
4	A. Yeah.	4	observed in humans?
5	Q. You are not aware of any human	5	MS. O'DELL: Object to the form.
6	studies relating p-Cresol as a potential	6	A. I'm sorry. Can you please
7	carcinogen. Correct?	7	repeat the question?
8	MS. O'DELL: Object to the form.	8	BY MR. ZELLERS:
9	A. Just so we're clear, it's	9	Q. Sure. Are you aware of any
10	unethical to infuse human ovaries with	10	study or finding of carcinogenicity observed
11	para-Cresol or any of these. That's just not	11	in humans with p-Cresol or para-Cresol?
12	done.	12	MS. O'DELL: Object to the form.
13	BY MR. ZELLERS:	13	A. So I have a journal article here
14	Q. The answer to my question is,	14	that I believe I cited, "The International
15	yes, it's correct, you are not aware of any	15	Journal of Toxicology," from 2006, Volume 25,
16	human studies. Right?	16	Supplement 1, Pages 29 through 127. "The
17	MS. O'DELL: No. Object to the	17	safety of Cresols was reviewed by the World
18	form. You don't get to rephrase his	18	Health Organization in 1995. The WHO report
19	answer.	19	concluded there is clear evidence in humans
20	MR. ZELLERS: I'm not	20	that during dermal or oral exposure, high
21	MS. O'DELL: He responded to	21	concentrations of Cresols are corrosive,
22	your question. If you want to ask him	22	absorb rapidly, and produce severe toxicity
23	another question, Dr. Crowley is	23	that may result in death."
24	MR. ZELLERS: I want him to	24	that may result in death.
24	MR. ZELLERS: I want him to	24	
	Page 283		Page 285
1	answer my	1	BY MR. ZELLERS:
2	MS. O'DELL: willing to	2	Q. Is there
3	respond to you. But you don't get to	3	A. So
4	dictate what his response is going to	4	Q any study that associates
5	be.	5	p-Cresol or para-Cresol with ovarian
6	MR. ZELLERS: But I do get to	6	cancer in humans?
7	ask him for a response.	7	A. That study would never be done.
8	MS. O'DELL: And he gave you	8	So, no, that doesn't exist. It is unethical
9	one.	9	to dose ovaries with para-Cresol.
10	MR. ZELLERS: Well	10	Q. Are you aware of any observation
11	BY MR. ZELLERS:	11	of an increased risk of ovarian cancer with
12	Q. Doctor, you are not aware of any	12	exposure to para-Cresol or para-Cresol in
13	human study associating p-Cresol with any	13	humans?
14	type of ovarian cancer. Correct?	14	MS. O'DELL: Object to the form.
15	MS. O'DELL: Object to the form,	15	A. So I believe I mentioned this
16	asked and answered.	16	before. There was a positive validated
17	A. So, as I said, I don't think	17	cytogenic response in Chinese hamster ovary
18	that any regulatory authority in the world	18	cells, including DNA damage to human
19	would allow me to administer para-Cresol to a	19	lymphocytes, and morphological
20	human ovary. It wouldn't happen.	20	transformations in mouse fibroblasts.
21	BY MR. ZELLERS:	21	All three of those studies are
22	Q. Are you	22	done with cell lines. They are in vitro,
23	A. So to make that assertation in	23	because we don't ethically endanger humans,
24	humans is not ethically possible. These	24	and those are all types of things that are
	-		

PageID: 200418
Michael Crowley, Ph.D.

	Daga 206		Daga 200
_	Page 286		Page 288
1	considered by IARC, NTP, and so forth.	1	but we could go check the underlying study.
2	According to this report, Derek	2	Q. What evidence are you relying on
3	and Lewis studied the cellular toxicity	3	that this molecule is associated with ovarian
4	effects against CHO cells in a culture for 20	4	cancer?
5	hours with para-Cresol at a concentration	5	A. Let's go take a look. So sister
6	of 1,000 micrograms per mil, and they they	6	chromatid exchange and chromosomal
7	found these results, which are indicative of	7	aberrations in Chinese hamster ovary cells,
8	toxicity.	8	the concentration was 16 to 160 micrograms
9	BY MR. ZELLERS:	9	per milliliter in the Galloway study.
10	Q. You do not know the	10	Let's go take a look at the
11	concentration or the amount of p-Cresol or	11	European Food Safety Authority studies if you
12	para-Cresol in baby powder or Shower to	12	like.
13	Shower. Correct?	13	Q. Any human study or study of
14	MS. O'DELL: Object to the form.	14	ethyl methylphenylglycidate
15	A. Again, Johnson & Johnson never	15	A. Human tox studies aren't
16	provided the information in order to do any	16	performed, as we've discussed.
17	kind of analysis like that.	17	Q. So the answer is no. Correct?
18	BY MR. ZELLERS:	18	No human toxicology study. Correct?
19	Q. You also have not made any	19	MS. O'DELL: Object to the form.
20	estimate or evaluation and have no	20	A. That's correct.
21	information as to the exposure of women to	21	BY MR. ZELLERS:
22	either baby powder or Shower to Shower.	22	Q. Juniperus communis fruit oil.
23	Correct?	23	You state that the CIR expert panel concluded
24		24	that there is insufficient information
24	MS. O'DELL: Object to the form.	24	that there is insufficient information
	Page 287		Page 289
1	A. Yeah, so I can't do that without	1	available to support the safety of juniperus
2	the information that Johnson & Johnson did	2	communis fruit oil for use in cosmetics.
3	not provide, so	3	Did you make that statement?
4	BY MR. ZELLERS:	4	A. I believe I quoted the CIR
5	Q. On Page 21 of your report, you	5	review panel.
6	state that the European Food Safety Authority	6	Q. Do you know what
7	found that there is substantial evidence that	7	A. So it's not really a statement.
8	ethyl methylphenylglycidate	8	It's it's a citation to those folks.
9	A. I'm sorry. What page did you	9	Q. Do you know what information the
10	say?	10	CIR expert panel considered?
11	Q. Page 21 has genotoxic	11	A. Yeah, I read the report.
12	potential from the available in vitro and	12	Q. Do you know if it was related to
13	in vivo studies.	13	any type of cancer?
14	Did you make that statement?	14	A. I would have to go back and
15	A. I didn't make that statement.	15	review the report.
16	The European Food Safety Authority did.	16	Q. Juniperus communis fruit oil is
17	Q. Do you know whether these	17	fruit oil. Correct?
1 - '	studies were conducted on animals or humans?	18	A. It's juniper fruit oil, I
1.8	stages were conducted on animals of numans:	19	believe, which I mean, it's a it's an
18 19	A Henally those studies are	1 1 9	
19	A. Usually those studies are	1	
19 20	conducted on animals.	20	extract. Right? So I think, actually,
19 20 21	conducted on animals. Q. Do you know what doses of the	20 21	extract. Right? So I think, actually, that's one that's actually a combination of
19 20 21 22	conducted on animals. Q. Do you know what doses of the chemical the study subjects, the animals,	20 21 22	extract. Right? So I think, actually, that's one that's actually a combination of many things. I don't think it's one unique
19 20 21	conducted on animals. Q. Do you know what doses of the	20 21	extract. Right? So I think, actually, that's one that's actually a combination of

	Page 290		Page 292
1	European Scientific Committee on Health and	1	assessment.
2	Environmental Risk has classified musk ketone	2	So this is consistent with how I
3	as a Category 3 carcinogen. Is that right?	3	have worked in the past in doing safety
4	A. I'm sorry. What page did you	4	analyses on other compounds.
5	say?	5	BY MR. ZELLERS:
6	Q. Page 48.	6	Q. What the Scientific Committee on
7	A. Again, I didn't state it. I'm	7	Health and Environmental Risk looked at was a
8	just citing the source.	8	chemical called musk xylene. Is that right?
9	Q. You went out and you did your	9	A. That's what it says.
10	search and collected information, and here	10	Q. If you take a look at the
11	you're citing from an entity called SCHER,	11	information that they considered in
12	S-C-H-E-R, which is the Scientific Committee	12	classifying musk ketone as a Category 3
13	on Health and Environmental Risk with the	13	carcinogen look on Page 3, under opinion,
14	European Commission. Is that right?	14	the second paragraph of 3.1, introduction.
15	A. Yes.	15	Do you see that?
16	(Exhibit No. 31 marked)	16	A. Yes.
17	BY MR. ZELLERS:	17	Q. What SCHER the committee
18	Q. Take a look at Deposition	18	states, "Musk xylene has been classified as
19	Exhibit 31. This document sets forth the	19	'Category 3 carcinogen'"
20	classification of a musk ketone. Is that	20	A. Uh-huh.
21	right? And again	21	Q "based on an 80-week oral
22	A. Yep.	22	carcinogenicity study in mice and absence of
23	Q. Strike that.	23	genotoxicity. The classification of musk
24	Turning to the third page in the	24	xylene as 'Category 3 carcinogen' is
	Page 291		Page 293
1	second paragraph under background, it states,	1	considered as a borderline case since an
1 2	second paragraph under background, it states, "The recommendation for carcinogenic	1 2	
	"The recommendation for carcinogenic		considered as a borderline case since an increase in liver tumors in the highly sensitive B6C3F1 mouse is considered of
2		2	increase in liver tumors in the highly
2	"The recommendation for carcinogenic Category 3 was obtained by reading-across	2 3	increase in liver tumors in the highly sensitive B6C3F1 mouse is considered of
2 3 4	"The recommendation for carcinogenic Category 3 was obtained by reading-across from musk xylene (which is classified as such	2 3 4	increase in liver tumors in the highly sensitive B6C3F1 mouse is considered of little relevance for human hazard
2 3 4 5	"The recommendation for carcinogenic Category 3 was obtained by reading-across from musk xylene (which is classified as such since the 29th ATP), since there are no test	2 3 4 5	increase in liver tumors in the highly sensitive B6C3F1 mouse is considered of little relevance for human hazard assessment."
2 3 4 5 6	"The recommendation for carcinogenic Category 3 was obtained by reading-across from musk xylene (which is classified as such since the 29th ATP), since there are no test data on carcinogenicity on musk ketone	2 3 4 5 6	increase in liver tumors in the highly sensitive B6C3F1 mouse is considered of little relevance for human hazard assessment." Did I read that correctly?
2 3 4 5 6 7	"The recommendation for carcinogenic Category 3 was obtained by reading-across from musk xylene (which is classified as such since the 29th ATP), since there are no test data on carcinogenicity on musk ketone itself." Is that right? A. That's right.	2 3 4 5 6 7	increase in liver tumors in the highly sensitive B6C3F1 mouse is considered of little relevance for human hazard assessment." Did I read that correctly? A. Yes, I believe you did. Q. All right. Musk xylene is classified as a Category 3 carcinogen based
2 3 4 5 6 7 8	"The recommendation for carcinogenic Category 3 was obtained by reading-across from musk xylene (which is classified as such since the 29th ATP), since there are no test data on carcinogenicity on musk ketone itself." Is that right? A. That's right. Q. So the classification was based	2 3 4 5 6 7 8	increase in liver tumors in the highly sensitive B6C3F1 mouse is considered of little relevance for human hazard assessment." Did I read that correctly? A. Yes, I believe you did. Q. All right. Musk xylene is classified as a Category 3 carcinogen based on this study of mice. Correct?
2 3 4 5 6 7 8	"The recommendation for carcinogenic Category 3 was obtained by reading-across from musk xylene (which is classified as such since the 29th ATP), since there are no test data on carcinogenicity on musk ketone itself." Is that right? A. That's right.	2 3 4 5 6 7 8 9 10	increase in liver tumors in the highly sensitive B6C3F1 mouse is considered of little relevance for human hazard assessment." Did I read that correctly? A. Yes, I believe you did. Q. All right. Musk xylene is classified as a Category 3 carcinogen based on this study of mice. Correct? A. Well, I mean, you just read the
2 3 4 5 6 7 8 9	"The recommendation for carcinogenic Category 3 was obtained by reading-across from musk xylene (which is classified as such since the 29th ATP), since there are no test data on carcinogenicity on musk ketone itself." Is that right? A. That's right. Q. So the classification was based on studies of a chemical that is similar to musk ketone, but not on studies that actually	2 3 4 5 6 7 8 9 10 11 12	increase in liver tumors in the highly sensitive B6C3F1 mouse is considered of little relevance for human hazard assessment." Did I read that correctly? A. Yes, I believe you did. Q. All right. Musk xylene is classified as a Category 3 carcinogen based on this study of mice. Correct? A. Well, I mean, you just read the paragraph to me. It's an 80-week oral study.
2 3 4 5 6 7 8 9 10	"The recommendation for carcinogenic Category 3 was obtained by reading-across from musk xylene (which is classified as such since the 29th ATP), since there are no test data on carcinogenicity on musk ketone itself." Is that right? A. That's right. Q. So the classification was based on studies of a chemical that is similar to musk ketone, but not on studies that actually involved musk ketone. Correct?	2 3 4 5 6 7 8 9 10 11 12 13	increase in liver tumors in the highly sensitive B6C3F1 mouse is considered of little relevance for human hazard assessment." Did I read that correctly? A. Yes, I believe you did. Q. All right. Musk xylene is classified as a Category 3 carcinogen based on this study of mice. Correct? A. Well, I mean, you just read the paragraph to me. It's an 80-week oral study. Now, in this in this case, I'd like to see
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2 3 4 5 6 7 8 9 10 11 12 13 14	"The recommendation for carcinogenic Category 3 was obtained by reading-across from musk xylene (which is classified as such since the 29th ATP), since there are no test data on carcinogenicity on musk ketone itself." Is that right? A. That's right. Q. So the classification was based on studies of a chemical that is similar to musk ketone, but not on studies that actually involved musk ketone. Correct? MS. O'DELL: Objection to form. A. That's correct. And you make a this is, I think, an important	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	increase in liver tumors in the highly sensitive B6C3F1 mouse is considered of little relevance for human hazard assessment." Did I read that correctly? A. Yes, I believe you did. Q. All right. Musk xylene is classified as a Category 3 carcinogen based on this study of mice. Correct? A. Well, I mean, you just read the paragraph to me. It's an 80-week oral study. Now, in this in this case, I'd like to see an 80-week vaginal study. Q. Okay. You've got to answer please answer my questions.
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	"The recommendation for carcinogenic Category 3 was obtained by reading-across from musk xylene (which is classified as such since the 29th ATP), since there are no test data on carcinogenicity on musk ketone itself." Is that right? A. That's right. Q. So the classification was based on studies of a chemical that is similar to musk ketone, but not on studies that actually involved musk ketone. Correct? MS. O'DELL: Objection to form. A. That's correct. And you make a this is, I think, an important circumstance here. Because this is how the SafeBridge folks classify compounds. They do a read-across.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	increase in liver tumors in the highly sensitive B6C3F1 mouse is considered of little relevance for human hazard assessment." Did I read that correctly? A. Yes, I believe you did. Q. All right. Musk xylene is classified as a Category 3 carcinogen based on this study of mice. Correct? A. Well, I mean, you just read the paragraph to me. It's an 80-week oral study. Now, in this in this case, I'd like to see an 80-week vaginal study. Q. Okay. You've got to answer please answer my questions. This classification was based upon an animal study; in this case, mice. Is that correct?
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	"The recommendation for carcinogenic Category 3 was obtained by reading-across from musk xylene (which is classified as such since the 29th ATP), since there are no test data on carcinogenicity on musk ketone itself." Is that right? A. That's right. Q. So the classification was based on studies of a chemical that is similar to musk ketone, but not on studies that actually involved musk ketone. Correct? MS. O'DELL: Objection to form. A. That's correct. And you make a this is, I think, an important circumstance here. Because this is how the SafeBridge folks classify compounds. They do a read-across. What does this particular compound have in common with others that are like it? And as part of that, they examine	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	increase in liver tumors in the highly sensitive B6C3F1 mouse is considered of little relevance for human hazard assessment." Did I read that correctly? A. Yes, I believe you did. Q. All right. Musk xylene is classified as a Category 3 carcinogen based on this study of mice. Correct? A. Well, I mean, you just read the paragraph to me. It's an 80-week oral study. Now, in this in this case, I'd like to see an 80-week vaginal study. Q. Okay. You've got to answer please answer my questions. This classification was based upon an animal study; in this case, mice. Is that correct? A. Yes. Q. The mice were highly predisposed to cancer. Is that right?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	"The recommendation for carcinogenic Category 3 was obtained by reading-across from musk xylene (which is classified as such since the 29th ATP), since there are no test data on carcinogenicity on musk ketone itself." Is that right? A. That's right. Q. So the classification was based on studies of a chemical that is similar to musk ketone, but not on studies that actually involved musk ketone. Correct? MS. O'DELL: Objection to form. A. That's correct. And you make a this is, I think, an important circumstance here. Because this is how the SafeBridge folks classify compounds. They do a read-across. What does this particular compound have in common with others that are like it? And as part of that, they examine the available literature in animal studies	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	increase in liver tumors in the highly sensitive B6C3F1 mouse is considered of little relevance for human hazard assessment." Did I read that correctly? A. Yes, I believe you did. Q. All right. Musk xylene is classified as a Category 3 carcinogen based on this study of mice. Correct? A. Well, I mean, you just read the paragraph to me. It's an 80-week oral study. Now, in this in this case, I'd like to see an 80-week vaginal study. Q. Okay. You've got to answer please answer my questions. This classification was based upon an animal study; in this case, mice. Is that correct? A. Yes. Q. The mice were highly predisposed to cancer. Is that right? A. I mean, they said highly
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	"The recommendation for carcinogenic Category 3 was obtained by reading-across from musk xylene (which is classified as such since the 29th ATP), since there are no test data on carcinogenicity on musk ketone itself." Is that right? A. That's right. Q. So the classification was based on studies of a chemical that is similar to musk ketone, but not on studies that actually involved musk ketone. Correct? MS. O'DELL: Objection to form. A. That's correct. And you make a this is, I think, an important circumstance here. Because this is how the SafeBridge folks classify compounds. They do a read-across. What does this particular compound have in common with others that are like it? And as part of that, they examine	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	increase in liver tumors in the highly sensitive B6C3F1 mouse is considered of little relevance for human hazard assessment." Did I read that correctly? A. Yes, I believe you did. Q. All right. Musk xylene is classified as a Category 3 carcinogen based on this study of mice. Correct? A. Well, I mean, you just read the paragraph to me. It's an 80-week oral study. Now, in this in this case, I'd like to see an 80-week vaginal study. Q. Okay. You've got to answer please answer my questions. This classification was based upon an animal study; in this case, mice. Is that correct? A. Yes. Q. The mice were highly predisposed to cancer. Is that right?

	Page 294		Page 296
1	they're predisposed or not, but	1	only thing I want to clarify is that you and
2	Q. This animal study does not	2	I were in agreement that at least with musk
3	relate in any way to ovarian cancer.	3	xylene, there was no animal study associating
4	Correct?	4	that chemical or musk ketone with ovarian
5	A. I wouldn't	5	cancer. Correct?
6	MS. O'DELL: Object to the form.	6	A. That's correct.
7	THE WITNESS: Sorry.	7	Q. All right.
8	A. Yeah, I wouldn't call it that.	8	A. It's got similar properties to
9	BY MR. ZELLERS:	9	musk xylene, but it does not have
10	Q. You would agree with me that it	10	carcinogenic studies in animals.
11	doesn't relate to ovarian cancer?	11	Q. In your report, Section 4.4, you
12	A. No, not really. No.	12	discuss the fragrance chemicals that are
13	MR. ZELLERS: Let's take a break	13	classified as irritants. Is that right?
14	so we can change our disc.	14	This is Page 27.
15	THE WITNESS: Okay.	15	
			A. I think so, yes.
16	THE VIDEOGRAPHER: Going off the	16	Q. You rely on hazard statements
17	record, the time is 4:01 p.m.	17	from the GHS. Is that right?
18	(Recess from 4:01 p.m. to	18	A. GHS and and OSHA.
19	4:21 p.m.)	19	Q. You have a discussion here about
20	THE VIDEOGRAPHER: This marks	20	whether the GHS classifies the chemical as an
21	the beginning of Disc 4. Back on the	21	irritant or sensitizer. Is that right?
22	record, the time is 4:21 p.m.	22	A. I'm sorry. What's your
23	BY MR. ZELLERS:	23	what's your question?
24	Q. Dr. Crowley, I want to go back	24	Q. Sure. My question is
	Page 295		
	rage 273		Page 297
1		1	
1 2	just to the Deposition Exhibit 31. I thought	1 2	A. Are you asking me if I described
2	just to the Deposition Exhibit 31. I thought I asked you a couple of questions at the end	2	A. Are you asking me if I described them? Yes, I did.
2 3	just to the Deposition Exhibit 31. I thought I asked you a couple of questions at the end of our last session which were clear, but	2 3	A. Are you asking me if I described them? Yes, I did. Q. All right. GHS also has
2 3 4	just to the Deposition Exhibit 31. I thought I asked you a couple of questions at the end of our last session which were clear, but when I glanced back at our real-time	2 3 4	A. Are you asking me if I described them? Yes, I did. Q. All right. GHS also has classifications for the carcinogenicity of
2 3 4 5	just to the Deposition Exhibit 31. I thought I asked you a couple of questions at the end of our last session which were clear, but when I glanced back at our real-time transcript, they did not look clear.	2 3 4 5	A. Are you asking me if I described them? Yes, I did. Q. All right. GHS also has classifications for the carcinogenicity of chemicals. Is that right?
2 3 4 5 6	just to the Deposition Exhibit 31. I thought I asked you a couple of questions at the end of our last session which were clear, but when I glanced back at our real-time transcript, they did not look clear. MS. O'DELL: The last exhibit I	2 3 4 5 6	A. Are you asking me if I described them? Yes, I did. Q. All right. GHS also has classifications for the carcinogenicity of chemicals. Is that right? A. I believe so, yes.
2 3 4 5 6 7	just to the Deposition Exhibit 31. I thought I asked you a couple of questions at the end of our last session which were clear, but when I glanced back at our real-time transcript, they did not look clear. MS. O'DELL: The last exhibit I have is 30. Am I wrong?	2 3 4 5 6 7	A. Are you asking me if I described them? Yes, I did. Q. All right. GHS also has classifications for the carcinogenicity of chemicals. Is that right? A. I believe so, yes. Q. Those categories are H350, may
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	Page 298		Page 300
1	BY MR. ZELLERS:	1	information is a predecessor to the GHS
2	Q. Are you aware of any	2	system. Correct?
3	classification by GHS with respect to any of	3	MS. O'DELL: Object to the form.
4	the chemicals that you identify in your	4	A. I don't know which came first,
5	report where GHS has classified the chemicals	5	to be candid with you, so
6	as either may cause cancer or suspected of	6	BY MR. ZELLERS:
7	causing cancer?	7	Q. They contain similar type
8	A. I think there were	8	information?
9	MS. O'DELL: Object to the form,	9	A. Yeah.
10	asked and answered.	10	Q. What methodology did you use to
11	THE WITNESS: Sorry.	11	determine that chemicals that GHS classifies
12	A. I think there were some that	12	as irritants or sensitizers but not
13	were marked as suspected, and they	13	carcinogens contribute to cancer?
14	BY MR. ZELLERS:	14	MS. O'DELL: Object to the form,
15	Q. Are those in your report?	15	mis lack of foundation.
16	A. I believe they're in the	16	A. So, you know, as I was stating
17	appendices. I think I put them in there. Do	17	previously, irritants, sensitizers,
18	you want me to search for them?	18	allergens, and so forth all elicit immune
19	Q. No. What I want you to do,	19	responses I'm sorry inflammatory
20	though, is you collected this information	20	responses, and increases in inflammation have
21	regarding the different chemicals. Correct?	21	been associated with a higher risk for
22	A. Yes.	22	cancer.
23	MS. O'DELL: Object to the form.	23	BY MR. ZELLERS:
24	J	24	Q. For each of the chemicals that
	B 200		
	Page 299		Page 301
1	BY MR. ZELLERS:	1	Page 301 you list in Section 4.4 that are classified
1 2		1 2	
	BY MR. ZELLERS:		you list in Section 4.4 that are classified
2	BY MR. ZELLERS: Q. That would have included any GHS	2	you list in Section 4.4 that are classified as irritants, do you know how much exposure
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	Page 302		Page 304
1	MS. O'DELL: Object to the form.	1	and then the GHS classifications; H315,
2	A. Yes. Irritants are threshold	2	causes skin irritation; H317, causes an
3	based. You know, the important thing to	3	allergic skin reaction; R 36/38, irritating
4	understand there is it's usually done on a	4	the skin and eyes; R 43
5	fairly small pool of people, and the	5	THE REPORTER: Skin what?
6	threshold is sort of an average of a group,	6	Irritating the skin
7	so it may vary from person to person.	7	THE WITNESS: And eyes.
8	BY MR. ZELLERS:	8	THE REPORTER: You're facing
9	Q. As we discussed earlier, you did	9	that way. Thank you.
10	not consider how much of each chemical is in	10	Q. If you make reference to a GHS
11	the finished product, either baby powder or	11	classification in the appendices, you had
12	Shower to Shower. Correct?	12	access, then, to the GHS classifications for
13	MS. O'DELL: Object to the form.	13	that chemical. Correct?
14	A. So we we've talked about this	14	MS. O'DELL: Object to the form.
15	a lot. We asked for the information from J&J	15	A. I got the information from a
16	to enable doing that, and it was never	16	number of sources. So MSDS sheets, fragrance
17	provided. So I was unable to do that kind of	17	company websites, the a number of sources,
18	thing.	18	including the monograph of fragrance and
19	BY MR. ZELLERS:	19	flavors also had some of those.
20	Q. You did not consider how much of	20	So, you know, if it's been
21	each chemical actually reached the ovary in	21	disclosed as an irritant or a skin sensitizer
22	women. Correct?	22	but I was unable to find, you know, an MSDS
23	MS. O'DELL: Object to the form.	23	that stated it as such you know, so, for
24	A. Yeah, I've answered that	24	example, I think that I mean, the balsam
	Page 303		Page 305
			Page 305
1	question previously.	1	Peru, one of the reasons it's restricted is
1 2		1 2	
	question previously.		Peru, one of the reasons it's restricted is
2	question previously. BY MR. ZELLERS:	2	Peru, one of the reasons it's restricted is because so many people are sensitive to it.
2 3	question previously. BY MR. ZELLERS: Q. And that was not information	2 3	Peru, one of the reasons it's restricted is because so many people are sensitive to it. I didn't need a GHS to know that it was a
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Page 306 Page 308 1 appendices, and in many cases I did go read 1 MS. O'DELL: Object to the form. 2 the underlying reports if I could get them. 2 I have found studies that link 3 3 Do you know whether, in the inflammation to cancer. That's an reports that you looked at, that there was a 4 4 established link. That's indisputable. The 5 pure concentration of the substance used or a 5 Canadians stated as much in their assessment 6 diluted chemical? 6 on peroneal application of talc, and these 7 fragrance chemicals are part of that product. 7 MS. O'DELL: Objection to the 8 8 form. BY MR. ZELLERS: 9 9 Q. How --A. Yeah, almost always in the early studies they were mixing it with Vaseline and 10 10 A. It's all -- it's all part of one diluting it. And they, in some cases, would 11 11 product. do multiple strengths. They were not 12 12 Q. How do you define inflammation? applying it at a 100 percent concentration, 13 An inflammatory response. 13 A. nor were they applying it after it had been How do the ingredients you 14 14 15 blended with talc. 15 identify as irritants cause inflammation? 16 So the utility of those, you 16 MS. O'DELL: Object to the form. know, studies could certainly vary. There I can't believe I'm going to 17 17 could be, certainly, instances where, you 18 18 have to explain how an irritant causes 19 know, blending with talc reduces the 19 inflammation. likelihood of irritation or sensitization or 20 20 Inflammation is the result of 21 an allergic response, and, to the contrary, 21 any number of insults to a tissue. Cell there may be circumstances where blending death results in inflammation just as much as 22 22 23 with talc could produce a stronger irritation 23 a burn does. So there's all sorts of 24 chemicals, including cytokines and so forth, 24 or what have you. Page 307 Page 309 1 BY MR. ZELLERS: 1 associated with inflammation. It's so well 2 Q. Those types of studies or 2 understood, you can draw blood and mesh information was not available to you. 3 concentrations in plasma and get a sense of 3 Correct? 4 how inflamed someone is. 4 5 5 MS. O'DELL: Objection to form. BY MR. ZELLERS: 6 A. No. Some of them were. I did 6 Q. At what dose does an irritant 7 go look at several of them. 7 cause inflammation? 8 BY MR. ZELLERS: 8 MS. O'DELL: Object to the form. 9 That varies on a case-by-case 9 And you referenced them in the A. appendices. Is that right? 10 10 basis. 11 A. Yeah. 11 BY MR. ZELLERS: 12 12 Q. As we discussed earlier, you You have not done any scientific have not done any type of dose analysis with 13 analyses yourself as to whether or not a skin 13 or eye irritant can cause or contribute to 14 respect to the chemicals or fragrance 14 15 ovarian cancer in humans. Correct? 15 chemicals that you have identified in the baby powder or Shower to Shower. Correct? 16 MS. O'DELL: Object to the form. 16 MS. O'DELL: Object to the form. 17 A. I have not done that study. 17 18 BY MR. ZELLERS: 18 Yeah, I was unable to do it 19 Q. You also have not found any 19 because J&J didn't provide the information to studies on humans that support the statement 20 20 enable such an analysis. 21 that irritation can lead to inflammation and 21 BY MR. ZELLERS: 22 22 can contribute to ovarian cancer with respect Q. In your opinion, do both acute 23 to the chemicals you identify as irritants. and prolonged inflammation contribute to 23

24

ovarian cancer?

24

Is that right?

	Page 310		Page 312
1		1	
1 2	A. That's my understanding, yes.	1	
	Q. What study or studies are you	2	Q. Yes. MS. O'DELL: I don't think
3	relying on for that statement?	3	
4	A. Okay. Ness and Cottreau from	4	that's the right page.
5	1999 these are from Dydek's paper. I can	5	MR. ZELLERS: We looked at this
6	also point you to the Canadian assessment on	6	earlier today. It was
7	the safety of talc where they also stated	7	BY MR. ZELLERS:
8	that chronic inflammation and oxidative	8	Q. So on Page 42 for methyl
9	stress are important factors in the	9	salicylate
10	development and behavior of cancer, including	10	A. Salicylate.
11	ovarian cancer.	11	Q salicylate, you identify the
12	But it might be better to rely	12	IFRA acceptable level of use in dermal
13	upon some of the other experts to address	13	cosmetics, the amount. Is that right?
14	that. But since you asked, I can list the	14	A. I have listed the use level for
15	papers that I looked at.	15	cosmetics and the dermal systemic exposure in
16	Q. Okay. I don't need you to read	16	cosmetic products. There's two of them.
17	me the papers that are referenced in	17	Q. We had the discussion before.
18	Dr. Dydek's report. That's what you're	18	You don't know the amount or the
19	referring to. Is that right?	19	concentration that is in the talc powder or
20	MS. O'DELL: Object to the form.	20	Shower to Shower product in this case.
21	I don't think that's what he was he	21	Correct?
22	was saying.	22	A. That's correct.
23	A. No. I mentioned Dydek and the	23	MS. O'DELL: Object to the form.
24	Canadian Department of or Ministry of	24	
	Page 311		Page 313
1	Health report.	1	BY MR. ZELLERS:
2	BY MR. ZELLERS:	2	Q. In your report, you opine that
3	Q. Your methodology here, again,	3	the eye and the vagina are similar because
4	was to go out and, you know, to do a search	4	they are both mucous membranes. That's on
5	of the literature and to read the literature	5	Page 12. Is that right?
6	and to provide the opinions that you're	6	A. I think you've mischaracterized.
7	providing today. Correct?	7	So most of these cosmetic chemicals have eye
8	A. That was one part of it, yeah.	8	irritation studies because a lot of them go
9	Q. You've identified ingredients as	9	in cosmetics, so they end up near the eye.
10	skin and eye irritants for which IFRA has	10	And so the exposure to the eye is considered
11	established acceptable levels of use. Is	11	as part of the safety program.
12	that right?	12	Vaginal applications, not so
13	A. I'm sorry. What page are you	13	much, because very few cosmetics are applied
14	on?	14	to the vaginal area. Usually those are
15	Q. Well, look at Page 30 of your	15	drugs.
16	report, Table 8. You identify methyl	16	Q. You would agree, then, that the
17	salicylate as a skin and eye irritant. Is	17	eye and the vagina are not the same in terms
18	that right?	18	of mucous membranes and any irritation from
19	A. Methyl salicylate, yeah.	19	the chemicals you've identified?
- -	Q. Then on Page 42 of your report,	20	MS. O'DELL: Object to the form.
	you show that IFRA has established acceptable	21	A. They are both mucous membranes,
20			A. They are both mucous inclibrances,
20 21	•		
20 21 22	levels of use in dermal cosmetics.	22	and what I've suggested is that which
20 21	•		

Page 314 Page 316 would be to do that study, but, again, there 1 1 cause inflammation and oxidative stress. 2 are some ethics involved in that. 2 Q. Are you aware of any studies 3 3 BY MR. ZELLERS: which have looked at the use of sensitizers 4 4 in the development of ovarian cancer? Q. What study are you relying on to 5 make the statement that fragrances that are 5 MS. O'DELL: Object to the form. б identified as eye irritants are likely to 6 A. To the best of my knowledge, 7 there is no good animal study for ovarian 7 irritate the vaginal mucosa? 8 cancer. So I kind of feel like we keep 8 A. It's common general knowledge. 9 The same thing -- I mean, the same thing --9 getting some of the same questions to which I feel like I've already answered. 10 usually those that irritate eyes also 10 11 irritate lungs. They're both mucous 11 O. What -membranes. Not always, but it's a good and 12 12 A. So --13 safe generalization. 13 O. Go ahead. Finish. Q. Are there studies that you are 14 14 So, no, I don't think there are. 15 aware of with respect to the irritation of 15 because there isn't a model that's 16 the chemicals that you identified in your 16 acceptable. report as irritants to the vaginal mucosa? 17 17 What does sensitization have to O. 18 A. I would have to check. I think, 18 do with the development of cancer? 19 like I said, I found three out of the 175 19 A. I just stated that sensitizers that have been studied in the -- for safety can cause inflammation and oxidative stress, 20 20 21 in the vagina. So only three out of the 175 21 which are associated with a greater risk of have been examined in those studies. I'd 22 22 cancer. 23 need to go check and find out if any of them 23 Q. Are you aware of any studies were found to be vaginal irritants. 24 24 relating to how sensitizers are related to Page 315 Page 317 1 Q. If any were vaginal irritants, 1 the development of cancer in humans? 2 that would be information in your appendices. 2 MS. O'DELL: Object to the form, 3 3 Correct? asked and answered. A. Presuming I found that, yeah. 4 A. I feel like I just answered that 4 5 5 As you sit here, you're not -question, so same answer. They cause you don't at least have a recollection of 6 oxidation -- oxidative stress and 6 7 having found that? 7 inflammation. 8 8 BY MR. ZELLERS: A. There was --9 9 MS. O'DELL: Object to the form. Q. My question, though, is: Are 10 A. Yeah, there was such little 10 you aware of any studies that demonstrate information available on vaginal 11 that, sensitizers and the development of 11 12 administration of this, I don't recall that 12 cancer? any -- if any of them were vaginal irritants. 13 I would have --13 BY MR. ZELLERS: 14 MS. O'DELL: Asked and answered. 14 15 A. Yeah. I would have to provide 15 Sensitizers. In your report, Section 4.5, you discuss the fragrance 16 the same response, and I feel like I've 16 17 chemicals that are classified as sensitizers. 17 answered the question, so --18 BY MR. ZELLERS: 18 Is that right? 19 Q. And I don't --19 A. Section 4.5 is on sensitizers, 20 that's right. 20 A. In humans? 21 -- mean to be disrespectful --21 What does sensitization have to O. 22 Are you asking in humans? 22 do with the development of ovarian cancer? In humans, yes. In humans, 23 23 A. If you are exposed to a

you're not aware of any studies. Correct?

24

24

sensitizer and you're sensitive to it, it can

	7 210		- 200
	Page 318		Page 320
1	A. You know, again, this is an	1	basis. Some of that information was made
2	ethics question. I I don't think the FDA	2	available in the underlying data that I
3	would let me take, for example, Peru balsam	3	looked at where they published the the
4	and, you know, gavage a female's ovaries. I	4	no-adverse-event level.
5	don't think that they would ever approve that	5	I did find some where it varied
6	protocol, and I think if I did submit one to	6	study to study. So it it, again, is is
7	them like that, I don't think any of my	7	information that was available in some of the
8	subsequent protocols would ever be	8	reports. Some of it, the underlying data
9	considered.	9	wasn't present.
10	MR. ZELLERS: Move to strike as	10	Q. The studies that you found for
11	nonresponsive.	11	each of the chemicals you referenced in the
12	BY MR. ZELLERS:	12	appendices. Correct?
13	Q. My question simply was: Are you	13	A. Where I found them, yes, sir.
14	aware of any human study of sensitizers and	14	Q. You did not make any
15	the development of cancer?	15	determination that a sensitizer can cause or
16	I believe your answer is "no."	16	contribute to ovarian cancer in humans. Is
17	Correct?	17	that right?
18	A. No. You're not ethically	18	MS. O'DELL: Object to the form,
19	allowed to do that.	19	asked
20	Q. Are you aware of any studies?	20	A. The same question that I've
21	MS. O'DELL: He just answered	21	answered previously. The same answer.
22	it.	22	BY MR. ZELLERS:
23	MR. ZELLERS: What did he say,	23	Q. And the answer is "no."
24	Ms. O'Dell? What was his answer?	24	Correct?
	- 210		
	Page 319		Page 321
1	MS. O'DELL: His answer, "No.	1	A. We can go back through my
1 2		1 2	
	MS. O'DELL: His answer, "No.		A. We can go back through my
2	MS. O'DELL: His answer, "No. You're not ethically allowed to do	2	A. We can go back through my testimony.
2	MS. O'DELL: His answer, "No. You're not ethically allowed to do that."	2	A. We can go back through my testimony.Q. Well, I'm talking about
2 3 4	MS. O'DELL: His answer, "No. You're not ethically allowed to do that." MR. ZELLERS: All right. Is his	2 3 4	 A. We can go back through my testimony. Q. Well, I'm talking about A. There are no studies
2 3 4 5	MS. O'DELL: His answer, "No. You're not ethically allowed to do that." MR. ZELLERS: All right. Is his answer, no, there are no such studies?	2 3 4 5	 A. We can go back through my testimony. Q. Well, I'm talking about A. There are no studies Q. Go ahead.
2 3 4 5 6	MS. O'DELL: His answer, "No. You're not ethically allowed to do that." MR. ZELLERS: All right. Is his answer, no, there are no such studies? MS. O'DELL: I think he said,	2 3 4 5 6	 A. We can go back through my testimony. Q. Well, I'm talking about A. There are no studies Q. Go ahead. A. There are no studies because
2 3 4 5 6 7	MS. O'DELL: His answer, "No. You're not ethically allowed to do that." MR. ZELLERS: All right. Is his answer, no, there are no such studies? MS. O'DELL: I think he said, "No," period, "You're not ethically	2 3 4 5 6 7	A. We can go back through my testimony. Q. Well, I'm talking about A. There are no studies Q. Go ahead. A. There are no studies because they are unethical. Q. What is the basis for your opinion that chemicals that cause
2 3 4 5 6 7 8	MS. O'DELL: His answer, "No. You're not ethically allowed to do that." MR. ZELLERS: All right. Is his answer, no, there are no such studies? MS. O'DELL: I think he said, "No," period, "You're not ethically allowed to do that."	2 3 4 5 6 7 8	A. We can go back through my testimony. Q. Well, I'm talking about A. There are no studies Q. Go ahead. A. There are no studies because they are unethical. Q. What is the basis for your
2 3 4 5 6 7 8	MS. O'DELL: His answer, "No. You're not ethically allowed to do that." MR. ZELLERS: All right. Is his answer, no, there are no such studies? MS. O'DELL: I think he said, "No," period, "You're not ethically allowed to do that." MR. ZELLERS: Okay. If he	2 3 4 5 6 7 8 9	A. We can go back through my testimony. Q. Well, I'm talking about A. There are no studies Q. Go ahead. A. There are no studies because they are unethical. Q. What is the basis for your opinion that chemicals that cause
2 3 4 5 6 7 8 9	MS. O'DELL: His answer, "No. You're not ethically allowed to do that." MR. ZELLERS: All right. Is his answer, no, there are no such studies? MS. O'DELL: I think he said, "No," period, "You're not ethically allowed to do that." MR. ZELLERS: Okay. If he said	2 3 4 5 6 7 8 9	A. We can go back through my testimony. Q. Well, I'm talking about A. There are no studies Q. Go ahead. A. There are no studies because they are unethical. Q. What is the basis for your opinion that chemicals that cause sensitization cause inflammation?
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2 3 4 5 6 7 8 9 10 11 12 13 14	MS. O'DELL: His answer, "No. You're not ethically allowed to do that." MR. ZELLERS: All right. Is his answer, no, there are no such studies? MS. O'DELL: I think he said, "No," period, "You're not ethically allowed to do that." MR. ZELLERS: Okay. If he said MS. O'DELL: I'm reading back his answer from the court reporter. MR. ZELLERS: If he said, "No," period, then I'm okay with that. MS. O'DELL: Do you need to	2 3 4 5 6 7 8 9 10 11 12 13 14	A. We can go back through my testimony. Q. Well, I'm talking about A. There are no studies Q. Go ahead. A. There are no studies because they are unethical. Q. What is the basis for your opinion that chemicals that cause sensitization cause inflammation? MS. O'DELL: Object to the form, asked and answered. A. It's an insult to tissue or a cell, and inflammation is a response as part of that, as is, in many cases, oxidative
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	MS. O'DELL: His answer, "No. You're not ethically allowed to do that." MR. ZELLERS: All right. Is his answer, no, there are no such studies? MS. O'DELL: I think he said, "No," period, "You're not ethically allowed to do that." MR. ZELLERS: Okay. If he said MS. O'DELL: I'm reading back his answer from the court reporter. MR. ZELLERS: If he said, "No," period, then I'm okay with that. MS. O'DELL: Do you need to clarify that, Dr. Crowley? A. There are no studies because	2 3 4 5 6 7 8 9 10 11 12 13 14 15	A. We can go back through my testimony. Q. Well, I'm talking about A. There are no studies Q. Go ahead. A. There are no studies because they are unethical. Q. What is the basis for your opinion that chemicals that cause sensitization cause inflammation? MS. O'DELL: Object to the form, asked and answered. A. It's an insult to tissue or a cell, and inflammation is a response as part of that, as is, in many cases, oxidative stress. BY MR. ZELLERS:
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	MS. O'DELL: His answer, "No. You're not ethically allowed to do that." MR. ZELLERS: All right. Is his answer, no, there are no such studies? MS. O'DELL: I think he said, "No," period, "You're not ethically allowed to do that." MR. ZELLERS: Okay. If he said MS. O'DELL: I'm reading back his answer from the court reporter. MR. ZELLERS: If he said, "No," period, then I'm okay with that. MS. O'DELL: Do you need to clarify that, Dr. Crowley? A. There are no studies because you're not allowed to do the study. BY MR. ZELLERS:	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. We can go back through my testimony. Q. Well, I'm talking about A. There are no studies Q. Go ahead. A. There are no studies because they are unethical. Q. What is the basis for your opinion that chemicals that cause sensitization cause inflammation? MS. O'DELL: Object to the form, asked and answered. A. It's an insult to tissue or a cell, and inflammation is a response as part of that, as is, in many cases, oxidative stress. BY MR. ZELLERS: Q. Section 4.6 of your report, you discuss that the fragrance chemicals that
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	MS. O'DELL: His answer, "No. You're not ethically allowed to do that." MR. ZELLERS: All right. Is his answer, no, there are no such studies? MS. O'DELL: I think he said, "No," period, "You're not ethically allowed to do that." MR. ZELLERS: Okay. If he said MS. O'DELL: I'm reading back his answer from the court reporter. MR. ZELLERS: If he said, "No," period, then I'm okay with that. MS. O'DELL: Do you need to clarify that, Dr. Crowley? A. There are no studies because you're not allowed to do the study. BY MR. ZELLERS: Q. Thank you. For each of these	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. We can go back through my testimony. Q. Well, I'm talking about A. There are no studies Q. Go ahead. A. There are no studies because they are unethical. Q. What is the basis for your opinion that chemicals that cause sensitization cause inflammation? MS. O'DELL: Object to the form, asked and answered. A. It's an insult to tissue or a cell, and inflammation is a response as part of that, as is, in many cases, oxidative stress. BY MR. ZELLERS: Q. Section 4.6 of your report, you discuss that the fragrance chemicals that are classified as allergens. Is that right?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	MS. O'DELL: His answer, "No. You're not ethically allowed to do that." MR. ZELLERS: All right. Is his answer, no, there are no such studies? MS. O'DELL: I think he said, "No," period, "You're not ethically allowed to do that." MR. ZELLERS: Okay. If he said MS. O'DELL: I'm reading back his answer from the court reporter. MR. ZELLERS: If he said, "No," period, then I'm okay with that. MS. O'DELL: Do you need to clarify that, Dr. Crowley? A. There are no studies because you're not allowed to do the study. BY MR. ZELLERS: Q. Thank you. For each of these chemicals, these sensitizers, do you know how	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	A. We can go back through my testimony. Q. Well, I'm talking about A. There are no studies Q. Go ahead. A. There are no studies because they are unethical. Q. What is the basis for your opinion that chemicals that cause sensitization cause inflammation? MS. O'DELL: Object to the form, asked and answered. A. It's an insult to tissue or a cell, and inflammation is a response as part of that, as is, in many cases, oxidative stress. BY MR. ZELLERS: Q. Section 4.6 of your report, you discuss that the fragrance chemicals that are classified as allergens. Is that right? A. Yep.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	MS. O'DELL: His answer, "No. You're not ethically allowed to do that." MR. ZELLERS: All right. Is his answer, no, there are no such studies? MS. O'DELL: I think he said, "No," period, "You're not ethically allowed to do that." MR. ZELLERS: Okay. If he said MS. O'DELL: I'm reading back his answer from the court reporter. MR. ZELLERS: If he said, "No," period, then I'm okay with that. MS. O'DELL: Do you need to clarify that, Dr. Crowley? A. There are no studies because you're not allowed to do the study. BY MR. ZELLERS: Q. Thank you. For each of these chemicals, these sensitizers, do you know how much exposure is necessary to cause	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. We can go back through my testimony. Q. Well, I'm talking about A. There are no studies Q. Go ahead. A. There are no studies because they are unethical. Q. What is the basis for your opinion that chemicals that cause sensitization cause inflammation? MS. O'DELL: Object to the form, asked and answered. A. It's an insult to tissue or a cell, and inflammation is a response as part of that, as is, in many cases, oxidative stress. BY MR. ZELLERS: Q. Section 4.6 of your report, you discuss that the fragrance chemicals that are classified as allergens. Is that right? A. Yep. Q. Allergens only produce a
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	MS. O'DELL: His answer, "No. You're not ethically allowed to do that." MR. ZELLERS: All right. Is his answer, no, there are no such studies? MS. O'DELL: I think he said, "No," period, "You're not ethically allowed to do that." MR. ZELLERS: Okay. If he said MS. O'DELL: I'm reading back his answer from the court reporter. MR. ZELLERS: If he said, "No," period, then I'm okay with that. MS. O'DELL: Do you need to clarify that, Dr. Crowley? A. There are no studies because you're not allowed to do the study. BY MR. ZELLERS: Q. Thank you. For each of these chemicals, these sensitizers, do you know how	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. We can go back through my testimony. Q. Well, I'm talking about A. There are no studies Q. Go ahead. A. There are no studies because they are unethical. Q. What is the basis for your opinion that chemicals that cause sensitization cause inflammation? MS. O'DELL: Object to the form, asked and answered. A. It's an insult to tissue or a cell, and inflammation is a response as part of that, as is, in many cases, oxidative stress. BY MR. ZELLERS: Q. Section 4.6 of your report, you discuss that the fragrance chemicals that are classified as allergens. Is that right? A. Yep.

	Page 322		Page 324
1	A. That's correct.	1	studies that I looked at.
2	Q. You did not make any assessment	2	Q. If it was referenced in the
3	as to how much exposure is necessary to cause	3	studies you looked at, you would include it
4	an allergic response with these allergens.	4	in your appendices?
5	Is that right?	5	A. I tried to, yeah.
6	MS. O'DELL: Object to the form.	6	Q. With respect to Shower to Shower
7	A. Yeah. I couldn't do that	7	or baby powder, you did not make any
8	because J&J didn't provide the information,	8	assessment as to whether there was sufficient
9	as we've discussed.	9	
		10	exposure to result in a critical effect. Correct?
10	BY MR. ZELLERS:	1	
11	Q. Any studies that you're relying	11	A. Yeah, I couldn't
12	on to classify these chemicals as allergens,	12	MS. O'DELL: Object to the form.
13	would they be referenced in your appendices?	13	A. I couldn't do that because I
14	A. Yes, where where identified,	14	didn't have the information from J&J to
15	yeah.	15	enable to do that.
16	Q. You are not expressing an	16	THE REPORTER: Try and keep your
17	opinion that exposure to an allergen can	17	voice up when giving your answer,
18	cause or contribute to ovarian cancer.	18	please.
19	Correct?	19	THE WITNESS: Sorry about that.
20	A. That's	20	BY MR. ZELLERS:
21	MS. O'DELL: Object to the form.	21	Q. As best you can tell,
22	A. Yeah, that's correct. I'm not	22	phototoxicity is not related to ovarian
23	expressing that opinion.	23	cancer. Correct?
24		24	A. I'm sorry. Say that again.
	Page 323		Page 325
1	Page 323 BY MR. ZELLERS:	1	Page 325 Q. Phototoxicity is not related to
1 2	BY MR. ZELLERS:	1 2	
	BY MR. ZELLERS: Q. Section 4.7, you identify a		Q. Phototoxicity is not related to ovarian cancer. Correct?
2	BY MR. ZELLERS: Q. Section 4.7, you identify a number of components that IFRA has designated	2	Q. Phototoxicity is not related to ovarian cancer. Correct?A. To the best of my knowledge,
2 3	BY MR. ZELLERS: Q. Section 4.7, you identify a	2	Q. Phototoxicity is not related to ovarian cancer. Correct?A. To the best of my knowledge, yeah.
2 3 4	BY MR. ZELLERS: Q. Section 4.7, you identify a number of components that IFRA has designated as having a critical effect. Is that right? A. Yes.	2 3 4	 Q. Phototoxicity is not related to ovarian cancer. Correct? A. To the best of my knowledge, yeah. Q. IFRA Category 5 restriction,
2 3 4 5	BY MR. ZELLERS: Q. Section 4.7, you identify a number of components that IFRA has designated as having a critical effect. Is that right? A. Yes. Q. According to Table 11, those	2 3 4 5	 Q. Phototoxicity is not related to ovarian cancer. Correct? A. To the best of my knowledge, yeah. Q. IFRA Category 5 restriction, Section 4.8, you identify a number of
2 3 4 5 6 7	BY MR. ZELLERS: Q. Section 4.7, you identify a number of components that IFRA has designated as having a critical effect. Is that right? A. Yes. Q. According to Table 11, those critical effects are sensitization, dermal	2 3 4 5 6 7	 Q. Phototoxicity is not related to ovarian cancer. Correct? A. To the best of my knowledge, yeah. Q. IFRA Category 5 restriction, Section 4.8, you identify a number of components for which IFRA has established a
2 3 4 5 6 7 8	BY MR. ZELLERS: Q. Section 4.7, you identify a number of components that IFRA has designated as having a critical effect. Is that right? A. Yes. Q. According to Table 11, those critical effects are sensitization, dermal sensitization, and phototoxicity. Correct?	2 3 4 5 6 7 8	Q. Phototoxicity is not related to ovarian cancer. Correct? A. To the best of my knowledge, yeah. Q. IFRA Category 5 restriction, Section 4.8, you identify a number of components for which IFRA has established a Category 5 restriction. Is that right?
2 3 4 5 6 7 8 9	BY MR. ZELLERS: Q. Section 4.7, you identify a number of components that IFRA has designated as having a critical effect. Is that right? A. Yes. Q. According to Table 11, those critical effects are sensitization, dermal sensitization, and phototoxicity. Correct? A. There's also one with a	2 3 4 5 6 7 8	 Q. Phototoxicity is not related to ovarian cancer. Correct? A. To the best of my knowledge, yeah. Q. IFRA Category 5 restriction, Section 4.8, you identify a number of components for which IFRA has established a Category 5 restriction. Is that right? A. Yes.
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2 3 4 5 6 7 8 9 10	BY MR. ZELLERS: Q. Section 4.7, you identify a number of components that IFRA has designated as having a critical effect. Is that right? A. Yes. Q. According to Table 11, those critical effects are sensitization, dermal sensitization, and phototoxicity. Correct? A. There's also one with a potential for nitrosamine formation. THE REPORTER: I'm sorry. Say	2 3 4 5 6 7 8 9 10 11	Q. Phototoxicity is not related to ovarian cancer. Correct? A. To the best of my knowledge, yeah. Q. IFRA Category 5 restriction, Section 4.8, you identify a number of components for which IFRA has established a Category 5 restriction. Is that right? A. Yes. Q. That means IFRA has capped the usage levels due to concerns about dermal
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	BY MR. ZELLERS: Q. Section 4.7, you identify a number of components that IFRA has designated as having a critical effect. Is that right? A. Yes. Q. According to Table 11, those critical effects are sensitization, dermal sensitization, and phototoxicity. Correct? A. There's also one with a potential for nitrosamine formation. THE REPORTER: I'm sorry. Say it again. THE WITNESS: Potential for nitrosamine formation. BY MR. ZELLERS: Q. For each of these chemicals, do you know how much exposure is necessary to cause the given critical effect?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Q. Phototoxicity is not related to ovarian cancer. Correct? A. To the best of my knowledge, yeah. Q. IFRA Category 5 restriction, Section 4.8, you identify a number of components for which IFRA has established a Category 5 restriction. Is that right? A. Yes. Q. That means IFRA has capped the usage levels due to concerns about dermal sensitization or allergic response. Is that right? A. I don't know that that's the only two concerns that they cited in putting these Category 5 caps in place, because Category 5 includes not just baby powder and talcs, but facial creams, facial makeup, hand
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	BY MR. ZELLERS: Q. Section 4.7, you identify a number of components that IFRA has designated as having a critical effect. Is that right? A. Yes. Q. According to Table 11, those critical effects are sensitization, dermal sensitization, and phototoxicity. Correct? A. There's also one with a potential for nitrosamine formation. THE REPORTER: I'm sorry. Say it again. THE WITNESS: Potential for nitrosamine formation. BY MR. ZELLERS: Q. For each of these chemicals, do you know how much exposure is necessary to cause the given critical effect? A. Are you asking about from baby powder or Shower to Shower, or are you asking	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Q. Phototoxicity is not related to ovarian cancer. Correct? A. To the best of my knowledge, yeah. Q. IFRA Category 5 restriction, Section 4.8, you identify a number of components for which IFRA has established a Category 5 restriction. Is that right? A. Yes. Q. That means IFRA has capped the usage levels due to concerns about dermal sensitization or allergic response. Is that right? A. I don't know that that's the only two concerns that they cited in putting these Category 5 caps in place, because Category 5 includes not just baby powder and talcs, but facial creams, facial makeup, hand creams, facial masks, hair hair permanent. I think there are a lot of factors.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	BY MR. ZELLERS: Q. Section 4.7, you identify a number of components that IFRA has designated as having a critical effect. Is that right? A. Yes. Q. According to Table 11, those critical effects are sensitization, dermal sensitization, and phototoxicity. Correct? A. There's also one with a potential for nitrosamine formation. THE REPORTER: I'm sorry. Say it again. THE WITNESS: Potential for nitrosamine formation. BY MR. ZELLERS: Q. For each of these chemicals, do you know how much exposure is necessary to cause the given critical effect? A. Are you asking about from baby powder or Shower to Shower, or are you asking about pure chemical?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q. Phototoxicity is not related to ovarian cancer. Correct? A. To the best of my knowledge, yeah. Q. IFRA Category 5 restriction, Section 4.8, you identify a number of components for which IFRA has established a Category 5 restriction. Is that right? A. Yes. Q. That means IFRA has capped the usage levels due to concerns about dermal sensitization or allergic response. Is that right? A. I don't know that that's the only two concerns that they cited in putting these Category 5 caps in place, because Category 5 includes not just baby powder and talcs, but facial creams, facial makeup, hand creams, facial masks, hair hair permanent. I think there are a lot of factors. Q. For each of these chemicals, do
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	BY MR. ZELLERS: Q. Section 4.7, you identify a number of components that IFRA has designated as having a critical effect. Is that right? A. Yes. Q. According to Table 11, those critical effects are sensitization, dermal sensitization, and phototoxicity. Correct? A. There's also one with a potential for nitrosamine formation. THE REPORTER: I'm sorry. Say it again. THE WITNESS: Potential for nitrosamine formation. BY MR. ZELLERS: Q. For each of these chemicals, do you know how much exposure is necessary to cause the given critical effect? A. Are you asking about from baby powder or Shower to Shower, or are you asking about pure chemical? Q. The first question is pure	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. Phototoxicity is not related to ovarian cancer. Correct? A. To the best of my knowledge, yeah. Q. IFRA Category 5 restriction, Section 4.8, you identify a number of components for which IFRA has established a Category 5 restriction. Is that right? A. Yes. Q. That means IFRA has capped the usage levels due to concerns about dermal sensitization or allergic response. Is that right? A. I don't know that that's the only two concerns that they cited in putting these Category 5 caps in place, because Category 5 includes not just baby powder and talcs, but facial creams, facial makeup, hand creams, facial masks, hair hair permanent. I think there are a lot of factors. Q. For each of these chemicals, do you know how much exposure is necessary to
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	BY MR. ZELLERS: Q. Section 4.7, you identify a number of components that IFRA has designated as having a critical effect. Is that right? A. Yes. Q. According to Table 11, those critical effects are sensitization, dermal sensitization, and phototoxicity. Correct? A. There's also one with a potential for nitrosamine formation. THE REPORTER: I'm sorry. Say it again. THE WITNESS: Potential for nitrosamine formation. BY MR. ZELLERS: Q. For each of these chemicals, do you know how much exposure is necessary to cause the given critical effect? A. Are you asking about from baby powder or Shower to Shower, or are you asking about pure chemical? Q. The first question is pure chemical.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Q. Phototoxicity is not related to ovarian cancer. Correct? A. To the best of my knowledge, yeah. Q. IFRA Category 5 restriction, Section 4.8, you identify a number of components for which IFRA has established a Category 5 restriction. Is that right? A. Yes. Q. That means IFRA has capped the usage levels due to concerns about dermal sensitization or allergic response. Is that right? A. I don't know that that's the only two concerns that they cited in putting these Category 5 caps in place, because Category 5 includes not just baby powder and talcs, but facial creams, facial makeup, hand creams, facial masks, hair hair permanent. I think there are a lot of factors. Q. For each of these chemicals, do you know how much exposure is necessary to cause an allergic or sensitization response?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	BY MR. ZELLERS: Q. Section 4.7, you identify a number of components that IFRA has designated as having a critical effect. Is that right? A. Yes. Q. According to Table 11, those critical effects are sensitization, dermal sensitization, and phototoxicity. Correct? A. There's also one with a potential for nitrosamine formation. THE REPORTER: I'm sorry. Say it again. THE WITNESS: Potential for nitrosamine formation. BY MR. ZELLERS: Q. For each of these chemicals, do you know how much exposure is necessary to cause the given critical effect? A. Are you asking about from baby powder or Shower to Shower, or are you asking about pure chemical? Q. The first question is pure	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. Phototoxicity is not related to ovarian cancer. Correct? A. To the best of my knowledge, yeah. Q. IFRA Category 5 restriction, Section 4.8, you identify a number of components for which IFRA has established a Category 5 restriction. Is that right? A. Yes. Q. That means IFRA has capped the usage levels due to concerns about dermal sensitization or allergic response. Is that right? A. I don't know that that's the only two concerns that they cited in putting these Category 5 caps in place, because Category 5 includes not just baby powder and talcs, but facial creams, facial makeup, hand creams, facial masks, hair hair permanent. I think there are a lot of factors. Q. For each of these chemicals, do you know how much exposure is necessary to

	Page 326		Page 328
-			
1	the underlying information is, generally	1	have been glued to talc particles,
2	speaking, available.	2	administered to the peritoneal area, which
3	Q. You have no opinion, though,	3	subsequently enters the vagina, and where
4	with respect to any of these chemicals in	4	that talc particle goes, those fragrance
5	baby powder or Shower to Shower as to whether	5	chemicals go with it. They have
6	or not there is a sufficient exposure to	6	demonstrated many of them demonstrated
7	cause an allergic or sensitization response.	7	biological activity in animal and in vitro
8	Correct?	8	cell models that demonstrates toxicity and
9	MS. O'DELL: Object to the form.	9	carcinogenicity.
10	A. You know, if your client wants	10	And so excuse me. I'm not
11	to provide me that information, perhaps I	11	done yet. I don't know how else to state it.
12	could make that judgment, but I don't have	12	I think they can absolutely contribute to the
13	it.	13	carcinogenicity of the product in total.
14	BY MR. ZELLERS:	14	BY MR. ZELLERS:
15	Q. If IFRA relied on studies in	15	Q. In this section, in terms of the
16	setting these Category 5 restrictions on the	16	carcinogenicity, you do not know or have any
17	chemicals you identify in your report, you	17	information as to whether any of these
18	attempted to include that in your appendices?	18	ingredients in Johnson's baby powder or
19	MS. O'DELL: Object to the form.	19	Shower to Shower exceed the IFRA
20	A. Yes, I did.	20	restrictions. Correct?
21	BY MR. ZELLERS:	21	MS. O'DELL: Object to the form.
22	Q. Do you know whether the studies	22	A. Yeah, I don't know because I was
23	that IFRA looked at on setting these	23	never given the composition by Johnson &
24	Category 5 restrictions were studies	24	Johnson.
	Category 5 restrictions were studies		
	D 200		
	Page 327		Page 329
1		1	Page 329 BY MR. ZELLERS:
1 2	involving a pure concentration of the substance or a diluted substance?	1 2	BY MR. ZELLERS:
	involving a pure concentration of the substance or a diluted substance?		BY MR. ZELLERS: Q. With respect to the chemicals
2	involving a pure concentration of the substance or a diluted substance? A. You know, it was both. I mean,	2	BY MR. ZELLERS: Q. With respect to the chemicals that are identified in this section of your
2 3 4	involving a pure concentration of the substance or a diluted substance? A. You know, it was both. I mean, IFRA publishes a lot of these studies in	2 3 4	BY MR. ZELLERS: Q. With respect to the chemicals that are identified in this section of your report dealing with the IFRA Category 5
2	involving a pure concentration of the substance or a diluted substance? A. You know, it was both. I mean, IFRA publishes a lot of these studies in peer-reviewed journals, you know, as opposed	2 3 4 5	BY MR. ZELLERS: Q. With respect to the chemicals that are identified in this section of your report dealing with the IFRA Category 5 restrictions, you have no information that
2 3 4 5 6	involving a pure concentration of the substance or a diluted substance? A. You know, it was both. I mean, IFRA publishes a lot of these studies in peer-reviewed journals, you know, as opposed to CIR, which doesn't always do that. So, I	2 3 4 5 6	BY MR. ZELLERS: Q. With respect to the chemicals that are identified in this section of your report dealing with the IFRA Category 5 restrictions, you have no information that the amount of the chemical in baby powder or
2 3 4 5 6 7	involving a pure concentration of the substance or a diluted substance? A. You know, it was both. I mean, IFRA publishes a lot of these studies in peer-reviewed journals, you know, as opposed to CIR, which doesn't always do that. So, I mean, there's some transparency there with	2 3 4 5 6 7	BY MR. ZELLERS: Q. With respect to the chemicals that are identified in this section of your report dealing with the IFRA Category 5 restrictions, you have no information that the amount of the chemical in baby powder or Shower to Shower exceeded the IFRA
2 3 4 5 6 7 8	involving a pure concentration of the substance or a diluted substance? A. You know, it was both. I mean, IFRA publishes a lot of these studies in peer-reviewed journals, you know, as opposed to CIR, which doesn't always do that. So, I mean, there's some transparency there with IFRA. So you can go read those in the	2 3 4 5 6 7 8	BY MR. ZELLERS: Q. With respect to the chemicals that are identified in this section of your report dealing with the IFRA Category 5 restrictions, you have no information that the amount of the chemical in baby powder or Shower to Shower exceeded the IFRA restrictions. Correct?
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PageID: 200429
Michael Crowley, Ph.D.

		1	
	Page 330		Page 332
1	quantitative composition of the Johnson &	1	FDA inactive ingredient list, it is likely to
2	Johnson fragrance mix in the baby powder or	2	contribute to the development of ovarian
3	Shower to Shower product. I can't make any	3	cancer. Correct?
4	judgments to that without that, as I think	4	MS. O'DELL: Object to the form.
5	you well know.	5	A. So I can't understand the
6	BY MR. ZELLERS:	6	question because you've got two nots, so
7	Q. In this section	7	maybe just ask me what my opinion is.
8	A. So I can't determine if the	8	BY MR. ZELLERS:
9	Category 5 restrictions have been exceeded or	9	Q. Well, you expressed your opinion
10	not without that information. Right?	10	in your report. Is that right?
11	Q. In the Category 5 restrictions,	11	A. Yes.
12	dose or concentration would be important to	12	Q. Is it your opinion that an
13	your analysis. Is that right?	13	ingredient that's not listed on the FDA
14	MS. O'DELL: Objection to form.	14	inactive ingredient list is likely to
15	A. So, for example, cinnamal has a	15	contribute to the development of ovarian
16	Category 5 restriction of 0.05 percent.	16	cancer?
17	Since I don't know how much is present, I	17	A. You asked me if it's my opinion
18	can't make a judgment as to whether the	18	that if it's absent from that IID it's likely
19	cinnamal present in baby powder exceeds	19	to cause ovarian cancer?
20	0.05 percent or not. There's a bunch of	20	Q. Correct.
21	other fragrance chemicals here too that have	21	MS. O'DELL: Object to the form.
22	these restrictions similar to Shower to	22	BY MR. ZELLERS:
23	Shower. Let's save each other some time. I	23	Q. That's not your opinion, is it?
24	can't make that judgment because your client	24	A. No.
	<i>y</i>		2.21
	Page 331		Page 333
1	hasn't given me the information to be able to	1	MR. ZELLERS: I have no further
2	do that.	2	questions. Thank you.
3	BY MR. ZELLERS:	3	MR. FERGUSON: Why don't we go
4	Q. In your report, Section 4.10,	4	off the record for a second, please.
5	you discuss the FDA inactive ingredient list.	5	MS. O'DELL: Yeah.
6	Is that right?	6	THE VIDEOGRAPHER: Going off the
7	A. Yes.	7	record, the time is 5:04 p.m.
8	Q. The ingredients that you list	8	(Recess from 5:04 p.m. to
9	are only included if they are used in	9	5:18 p.m.)
10	FDA-approved drug products. Is that right?	10	THE VIDEOGRAPHER: Back on the
11	A. That's correct.	11	record. The time is 5:18 p.m.
12	Q. Most FDA-approved drug products	12	
13	do not use fragrances. Is that right?	13	EXAMINATION
14	MS. O'DELL: Object to the form.	14	
15	A. You know, I don't know what	15	BY MR. FERGUSON:
16	percentage use a fragrance. They're all	16	Q. Dr. Crowley, my name is Ken
17	chemicals. Right? So they're inactive	17	Ferguson, and along with Mr. Donath to my
18	ingredients, supposedly, right, or inert	18	right, I represent Imerys. Do you understand
19	although, certainly not all of them, but many	19	that?
20	of them have buffers, and film formers are	20	A. Yes.
21	often used, too.	21	Q. Do you know who Imerys is?
22	BY MR. ZELLERS:	22	A. Yes.
23	Q. You're not expressing an opinion	23	Q. Tell me what your understanding
24	that if an ingredient is not listed on the	24	is.

	Page 334		Page 336
1		1	
1 2	A. It's a company that mines talc	1	flotation process as you described it, but
3	and sells talc.	2	you ran out of time. Correct?
	Q. So over the course of the day, we've been discussing your opinions as	3	A. That's correct.
4		4	Q. And I think in your testimony,
5	expressed in your testimony today and your	5	the way you put it I just want to make
6 7	report relating to the fragrance chemicals	6 7	sure I understand you said you won't be
8	that you stated are included in Johnson's baby powder and formerly Shower to Shower.		expressing an opinion on the flotation
	• •	8	process today. Is it fair there's nothing
9 10	Correct? A. Yes.	9	about the flotation process in your report?
11		10 11	Correct?
12	Q. And would you agree your	12	A. That's correct.
	opinions in this case that you will express		Q. And in this case for purposes
13	in your testimony as well as your report only	13	of your testimony in this case, you don't
14	relate to fragrance chemicals?	14	intend to address the flotation process.
15	A. Yes, to a certain extent.	15	Correct?
16 17	Q. All right. Well, I better ask	16	A. I suppose if I'm asked I'll
18	about that. What do you mean by "to a certain extent"?	17	answer the questions based on what I did
19		18	review.
	A. Yeah. So some of these	19	Q. Well, since it's not contained
20	fragrance chemicals have been identified as	20 21	in your report, I'm sure the attorneys would
21	carcinogens, meaning if another material is		not want us to ask you questions about it in
22 23	present that is carcinogenic, they promote	22	that sense, but let me well, let me put it
23	its carcinogenic activity.	23	this way.
24	Q. Well, let me put it this way.	24	You did not complete your work
	Page 335		Page 337
1		1	
1 2	First of all, your the title of your	1 2	that you were considering doing regarding the
2	First of all, your the title of your report says "Rule 26 Report of Michael M.		that you were considering doing regarding the flotation process. Correct?
2	First of all, your the title of your report says "Rule 26 Report of Michael M. Crowley, Ph.D. Regarding the Fragrance	2	that you were considering doing regarding the flotation process. Correct? A. That's correct.
2	First of all, your the title of your report says "Rule 26 Report of Michael M.	2 3	that you were considering doing regarding the flotation process. Correct?
2 3 4	First of all, your the title of your report says "Rule 26 Report of Michael M. Crowley, Ph.D. Regarding the Fragrance Chemical Constituents in Johnson & Johnson	2 3 4	that you were considering doing regarding the flotation process. Correct? A. That's correct. Q. Because you ran out of time.
2 3 4 5	First of all, your the title of your report says "Rule 26 Report of Michael M. Crowley, Ph.D. Regarding the Fragrance Chemical Constituents in Johnson & Johnson Talcum Powder Products." Correct? A. Yes.	2 3 4 5	that you were considering doing regarding the flotation process. Correct? A. That's correct. Q. Because you ran out of time. Correct? A. Yes.
2 3 4 5 6	First of all, your the title of your report says "Rule 26 Report of Michael M. Crowley, Ph.D. Regarding the Fragrance Chemical Constituents in Johnson & Johnson Talcum Powder Products." Correct? A. Yes. Q. And you stand by that title for	2 3 4 5 6	that you were considering doing regarding the flotation process. Correct? A. That's correct. Q. Because you ran out of time. Correct? A. Yes. Q. And so your work with regard to
2 3 4 5 6 7	First of all, your the title of your report says "Rule 26 Report of Michael M. Crowley, Ph.D. Regarding the Fragrance Chemical Constituents in Johnson & Johnson Talcum Powder Products." Correct? A. Yes.	2 3 4 5 6 7	that you were considering doing regarding the flotation process. Correct? A. That's correct. Q. Because you ran out of time. Correct? A. Yes. Q. And so your work with regard to the flotation process as it relates to the
2 3 4 5 6 7 8	First of all, your the title of your report says "Rule 26 Report of Michael M. Crowley, Ph.D. Regarding the Fragrance Chemical Constituents in Johnson & Johnson Talcum Powder Products." Correct? A. Yes. Q. And you stand by that title for your report. Correct? A. Yes.	2 3 4 5 6 7 8	that you were considering doing regarding the flotation process. Correct? A. That's correct. Q. Because you ran out of time. Correct? A. Yes. Q. And so your work with regard to the flotation process as it relates to the talc was not was not completed?
2 3 4 5 6 7 8 9	First of all, your the title of your report says "Rule 26 Report of Michael M. Crowley, Ph.D. Regarding the Fragrance Chemical Constituents in Johnson & Johnson Talcum Powder Products." Correct? A. Yes. Q. And you stand by that title for your report. Correct?	2 3 4 5 6 7 8	that you were considering doing regarding the flotation process. Correct? A. That's correct. Q. Because you ran out of time. Correct? A. Yes. Q. And so your work with regard to the flotation process as it relates to the
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	Page 338		Page 340
1	A. Yes.	1	said, or would you like me to repeat myself?
2	Q. Before you read Dr. Dydek's	2	A. I heard you okay, but it did get
3	report, were you acquainted with him at all?	3	muffled at a few points, so we should
4	A. No.	4	probably take our time.
5	Q. Since you've read his report,	5	Q. Okay. Thank you, Dr. Crowley.
6	have you been have you met him? Have you	6	So what I said before is that I am Renee
7	talked to him at all?	7	Appel, and I represent Personal Care Products
8	A. No.	8	Counsel, and I had a few follow-up questions
9	Q. How about a Dr. Alan Campion who	9	for you.
10	is at The University of Texas, I believe? Do	10	A. Okay.
11	you know Dr. Campion?	11	Q. The CIR is not a federal agency.
12	A. I have met Dr. Campion.	12	Correct?
13	Q. Okay. Can you just tell me in	13	A. That's correct.
14	general what the circumstances were?	14	Q. So the CIR has no regulatory
15	A. I met him when I was in graduate	15	authority. Correct?
16	school, and shockingly I ended up sitting	16	A. That's correct.
17	next to him on a plane on our way to a	17	MS. APPEL: Okay. That's it.
18	conference about ten years ago.	18	MR. ZELLERS: Anyone else?
19	Q. Have you had any discussions	19	MS. O'DELL: I have questions,
20	with Dr. Campion regarding your work in this	20	SO
21	matter?	21	MR. ZELLERS: Go ahead.
22	A. No.	22	MS. O'DELL: Do you have an
23	Q. Do you know whether or not he is	23	objection to that?
24	an expert witness who has been listed in this	24	MR. ZELLERS: Well no, I
	Page 339		Page 341
1	matter?	1	don't have an objection.
2	A. I believe he has.	2	MS. O'DELL: Did you expect I
3	MR. FERGUSON: I think that's	3	was just wondering why you if
4	all I have. Thank you, Dr. Crowley.	4	anybody else has questions. I'm going
5	THE WITNESS: You're welcome.	5	to ask Dr. Crowley some questions,
6	MR. ZELLERS: Apparently	6	but okay? All right. Great.
7	Ms. Appel, do you have some questions	7	
8	or any questions?	8	EXAMINATION
9	MS. APPEL: Yes, please, very	9	
10	briefly.	10	BY MS. O'DELL:
11		11	Q. Dr. Crowley, I have a few
12	EXAMINATION	12	questions I'd like to ask you just to clarify
13		13	some of your testimony from earlier today.
14	BY MS. APPEL:	14	Let me just start at the
15	Q. Hi, again, Dr. Crowley. Renee	15	beginning and just ask for you to tell us a
16	Appel. I represent Personal Care Products	16	little bit about your qualifications in terms
17	Counsel. I just had a few questions for you.	17	of chemicals and chemicals that are used in
18	A. Okay.	18	fragrances, pharmaceuticals, other
19	Q. Can you hear me okay?	19	flavorants.
20	MS. O'DELL: Actually, we	20	A. Sure. I have a Bachelor's
21	couldn't hear that, so if you could	21	degree in chemistry, a Master's degree in
22	speak up, please. Thank you.	22	organic chemistry. My Doctorate is in
23	BY MS. APPEL:	23	molecular pharmaceutics. All three of those
24	Q. Did you hear anything I just	24	disciplines deal with chemicals and their
1			

Page 342 Page 344 1 biological properties. I have worked with 1 wasn't very hard because the government makes 2 flavors and fragrances throughout my career, 2 those rules pretty clear, and the industry although the primary focus has been on drug 3 trade groups like IFRA and CIR also, you 3 development. I have worked on the 4 4 know, provide information to support the use 5 5 development of foods, nutritional supplements of those chemicals in an appropriate fashion. б THE REPORTER: In an appropriate 6 which are regulated as foods, and I've worked 7 on cosmetic products as well. 7 fashion? 8 8 All of those chemicals that go THE WITNESS: Yes. 9 into those types of products are in fact 9 BY MS. O'DELL: chemicals. Whether you call them a flavor or 10 10 Q. Did you outline the results of a fragrance, they are chemicals. your review of the evidence in your report as 11 11 12 Q. And in terms of -- of your well as the appendices that's attached to 12 report, you reference in your report 13 your report? 13 fragrance chemicals, but by using that 14 14 A. Yes. 15 terminology, what were you really referring 15 Q. And you referred to data in your 16 to? 16 appendices earlier today -- actually, throughout your testimony. And would that 17 17 Well, Johnson & Johnson calls them fragrance chemicals, so I utilized their 18 data include the information that is located 18 19 term, but they're -- they're chemicals. 19 at the links that you provided in your Q. And, in fact, are some of those 20 appendices? 20 21 chemicals not actually, quote, fragrance 21 A. Yes. 22 chemicals in the technical sense? 22 So in addition to what's O. 23 A. That's correct. 23 actually listed in the appendices, the data 24 MR. ZELLERS: Objection; form. 24 that is contained in the link that you Page 343 Page 345 1 That's correct, they aren't --1 included would also be material that you 2 there are some that are clearly not 2 reviewed and considered in reaching your 3 3 fragrances. opinions? 4 BY MS. O'DELL: 4 A. Yes. Q. Now, in reviewing the list of 5 5 Q. And -- and what were you asked 6 to do in giving your opinions in this case? 6 chemicals or starting with that list of 7 A. So the two questions in my 7 chemicals, I mean -- let me just -- let me back up and just strike that and start again. 8 report. You know, are the products in 8 compliance with established industry and 9 Are fragrance formulas closely 9 10 regulatory standards, the first question. 10 held trade secrets? And the second question was what are the 11 11 MR. ZELLERS: Objection; form. properties of the fragrance chemicals, and do 12 A. Yes, oftentimes they are. 12 13 they contribute to the inflammatory 13 BY MS. O'DELL: 14 properties, toxicity, and potential 14 Q. In the case of Johnson's baby 15 carcinogenicity of the talcum powder 15 powder's fragrance, as well as Shower to 16 products. 16 Shower's fragrance, is that -- the 17 So that included looking at the 17 information about the formula that you used physical and chemical properties, reviewing for those fragrances something that 18 18 all of the available literature, including 19 19 necessarily would have to be provided by some literature that was only available via 20 20 Johnson & Johnson? 21 purchase or access to proprietary databases. 21 A. It would have been useful, but 22 Reviewing that, and then forming my opinion 22 it wasn't. based upon that. 23 23 In the data that you were O. 24 The regulation portion of this 24 provided initially to undertake the work that

PageID: 200433 Michael Crowley, Ph.D.

Page 346 you've done in this case was actually provided through a pleading that was issued by Johnson & Johnson in a state court case in St. Louis. Correct? A. Is that the Ingham MS. O'DELL: Yeah. Let me ask if I can have some exhibit stickers, please? MR. ZELLERS: Oh, yes, exhibit stickers. Yes. MS. O'DELL: Thank you. (Exhibit No. 32 marked) BY MS. O'DELL: Q. Let me show you what I'm marking as Exhibit 32. Is this information that was provided to you in order to learn the chemicals that were included in both Shower to Shower and Johnson's baby powder? A. Yes. Page 344 Q. It was a bad question. Look at Page 7, if you don't mind. A. Okay. Q. Was the information provided in Exhibit 32 information that attorneys for Johnson & Johnson & Johnson provided to the plaintiffs in that case? MR. ZELLERS: Form and foundation objection. A. That's what it looks like. It says, "Respectfully submitted" by the names of three attorneys who are labeled as attorneys for defendants Johnson & Johnson Consumer Companies, not shown as Johnson Consumer. Incorporated. BY MS. O'DELL: Q. Was this if looks like. It says, "Respectfully submitted" by the names of three attorneys who are labeled as attorneys for defendants Johnson & Johnson Consumer. Incorporated. BY MS. O'DELL: Q. Was this the list of chemicals that you utilized for the majority of the time you were doing your evaluation of these chemicals provided was the current fragrance chemical components? MR. ZELLERS: Objection; form. A. Yes. Page 347
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4 St. Louis. Correct? A. Is that the Ingham MS. O'DELL: Yeah. Let me ask if I can have some exhibit stickers, please? MR. ZELLERS: Oh, yes, exhibit stickers. Yes. MS. O'DELL: Thank you. (Exhibit No. 32 marked) BY MS. O'DELL: Q. Let me show you what I'm marking as Exhibit 32. Is this information that was provided to you in order to learn the chemicals that were included in both Shower to Shower and Johnson's baby powder? A. Yes. Q. Was the information provided in Exhibit 32 information that attorneys for Johnson & Johnson provided to the plaintiffs in that case? MR. ZELLERS: Form and foundation objection. A. That's what it looks like. It says, "Respectfully submitted" by the names of three attorneys who are labeled as attorneys for defendants Johnson & Johnson & Johnson of Sonsumer Companies, no and Johnson & Johnson Consumer Companies, no and Johnson & Johnson Consumer, Incorporated. BY MS. O'DELL: Q. Was this the list of chemicals that you utilized for the majority of the time you were doing your evaluation of these chemical components? MR. ZELLERS: Objection; form. A. Yes.
5 A. Is that the Ingham 6 MS. O'DELL: Yeah. Let me ask 7 if I can have some exhibit stickers, 8 please? 9 MR. ZELLERS: Oh, yes, exhibit 10 stickers. Yes. 11 MS. O'DELL: Thank you. 12 (Exhibit No. 32 marked) 13 BY MS. O'DELL: 14 Q. Let me show you what I'm marking 15 as Exhibit 32. Is this information that was 16 provided to you in order to learn the 17 chemicals that were included in both Shower 18 to Shower and Johnson's baby powder? 19 A. Yes. 20 Q. And if you'll turn to Page 2 of 21 the document, according to this answer to 22 Interrogatory 19, this is this list of 23 chemicals provided was the current fragrance 24 composition for Johnson's baby powder? 25 Exhibit 32 information that attorneys for 26 Johnson & Johnson provided to the plaintiffs 27 in that case? 28 MR. ZELLERS: Form and 69 foundation objection. A. That's what it looks like. It 29 says, "Respectfully submitted" by the names 20 of three attorneys who are labeled as 21 attorneys for defendants Johnson & Johnson Consumer Companies, not and Johnson & Johnson Consumer, 29 Interrogatory 19, this is this list of 20 MR. ZELLERS: Objection; form. 21 A. Yes. 22 MR. ZELLERS: Objection; form. 23 A. Yes.
6 MS. O'DELL: Yeah. Let me ask 7 if I can have some exhibit stickers, 8 please? 8 please? 9 MR. ZELLERS: Oh, yes, exhibit 10 stickers. Yes. 11 MS. O'DELL: Thank you. 12 (Exhibit No. 32 marked) 13 BY MS. O'DELL: 14 Q. Let me show you what I'm marking 15 as Exhibit 32. Is this information that was 16 provided to you in order to learn the 17 chemicals that were included in both Shower 18 to Shower and Johnson's baby powder? 19 A. Yes. 20 Q. And if you'll turn to Page 2 of 21 the document, according to this answer to 22 Interrogatory 19, this is this list of 23 chemicals provided was the current fragrance 24 composition for Johnson's baby powder? 26 Interrogatory is provided was the current fragrance 27 Interrogatory is provided was the current fragrance 28 Interrogatory is provided was the current fragrance 29 Interrogatory is provided was the current fragrance 20 Composition for Johnson's baby powder? 21 Interrogatory is provided was the current fragrance 22 Composition for Johnson's baby powder? 24 Interrogatory is provided was the current fragrance 25 Interrogatory is provided was the current fragrance 26 Interrogatory is provided was the current fragrance 27 Interrogatory is provided was the current fragrance 28 Interrogatory is provided was the current fragrance 29 Interrogatory is provided was the current fragrance 20 Interrogatory is provided was the current fragrance 21 Interrogatory is provided was the current fragrance 22 Interrogatory is provided was the current fragrance 23 Interrogatory is provided was the current fragrance 24 Interrogatory is provided was the current fragrance 25 Interrogatory is provided was the current fragrance 26 Interrogatory is provided was the current fragrance 27 Interrogatory is provided was the current fragrance 28 Interrogatory is provided was the current fragrance 29 Interrogatory is provided was the current fragrance 20 Interrogatory is provided was the current fragrance 21 Interrogatory is provided was in that case? 22 Interrogatory is provided to the plaintiffs in t
if I can have some exhibit stickers, please? MR. ZELLERS: Oh, yes, exhibit MR. ZELLERS: Form and foundation objection. A. That's what it looks like. It says, "Respectfully submitted" by the names (Exhibit No. 32 marked) BY MS. O'DELL: Q. Let me show you what I'm marking says Exhibit 32. Is this information that was foundation objection. A. That's what it looks like. It says, "Respectfully submitted" by the names of three attorneys who are labeled as attorneys for defendants Johnson & Johnson And Johnson & Johnson & Johnson Consumer Incorporated. BY MS. O'DELL: Respectfully submitted by the names of three attorneys who are labeled as attorneys for defendants Johnson & Johnson Incorporated. BY MS. O'DELL: Q. Was this the list of chemicals that you utilized for the majority of the time you were doing your evaluation of these chemical components? MR. ZELLERS: Objection; form. A. Yes. A. Yes.
9 MR. ZELLERS: Oh, yes, exhibit 10 stickers. Yes. 11 MS. O'DELL: Thank you. 12 (Exhibit No. 32 marked) 13 BY MS. O'DELL: 14 Q. Let me show you what I'm marking 15 as Exhibit 32. Is this information that was 16 provided to you in order to learn the 17 chemicals that were included in both Shower 18 to Shower and Johnson's baby powder? 19 A. Yes. 20 Q. And if you'll turn to Page 2 of 21 the document, according to this answer to 22 Interrogatory 19, this is this list of 23 chemicals provided was the current fragrance 24 composition for Johnson's baby powder? 26 MR. ZELLERS: Form and 9 foundation objection. 28 MR. ZELLERS: Form and 6 foundation objection. 4 A. That's what it looks like. It 20 A. That's what it looks like. It 21 says, "Respectfully submitted" by the names 21 of three attorneys who are labeled as 22 attorneys for defendants Johnson & Johnson 23 attorneys for defendants Johnson & Johnson Consumer Companies, not and Johnson & Johnson Consumer, 24 Incorporated. 25 BY MS. O'DELL: 26 Q. Was this the list of chemicals 27 that you utilized for the majority of the time you were doing your evaluation of these chemical components? 28 MR. ZELLERS: Objection; form. 29 A. Yes. 20 A. Yes.
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24 composition for Johnson's baby powder? 24
Page 347 Page 34
1 A. That's correct. 1 BY MS. O'DELL:
Q. And this listing does not 2 Q. And shortly prior to the
3 include information about the concentration 3 disclosure of your report, did you receive
4 of the particular chemicals in the baby 4 another list of fragrance ingredients for
5 powder fragrance? 5 both baby powder and Shower to Shower
6 A. That's correct. 6 A. I don't know if I'd call it
7 Q. And is that also true as it 7 another list. I received a second list.
8 relates to this answer to interrogatory 8 Yeah, I guess another list.
9 regarding Shower to Shower? 9 Q. Yeah. Fair, it's hard to know
10 A. Yes. 10 how to characterize it. But I'll represent
11 Q. And is this information that was 11 to you
provided to the plaintiffs and to the Court 12 (Exhibit No. 33 marked)
in the Circuit Court of the City of St. Louis 13 BY MS. O'DELL:
by attorneys for Johnson & Johnson and 14 Q. This is Exhibit 33. This is a
Johnson & Johnson Consumer, Inc.? 15 list of chemicals that were provided by
MR. ZELLERS: Objection; form, 16 Johnson & Johnson's lawyer, Mr. Wyatt's
foundation. 17 partner, Richard Bernardo, after plaintiffs
18 BY MS. O'DELL: 18 in the multi-district litigation, had asked
19 Q. Well, I'll just ask you I'll 19 for the formula itself, including the
20 address the objection. If you'll look at 20 concentration of chemicals.
21 Page 21 This would you just describe
44 A. I UUII I UIIUCISIAIIU IIIC UUCSIIOII. 44 IOT THE IIITV AND THE IIIIGGE CETTAINIV WHAT
22 A. I don't understand the question. 23 Q. Well, let me ask it again. 24 A. Okay. 25 For the jury and the Judge, certainly, what the judge, certainly, which is the judge, certainly, what the judge, certainly, what the judge, certainly, what the judge, certainly, which is

Page 350 Page 352 1 Johnson's baby powder? 1 insufficient to understand the concentrations 2 A. Okay. So there's -- there's 2 or other relevant facts about the chemicals? four columns. The first column is a 3 3 A. Yes. 4 description of the fragrance chemical. The 4 (Exhibit No. 35 marked) 5 second column is labeled "minimum," the third 5 BY MS. O'DELL: column is labeled "maximum," and the fourth 6 6 Q. Okay. Now, I want to show you 7 column is the CAS number that we spoke about 7 one last document -- and I'm marking that as Exhibit 35 -- and ask you to identify that. 8 earlier today. 8 9 Q. And are there units that have 9 A. Exhibit 35 is titled "Changes to 10 10 Johnson & Johnson's Baby Powder Fragrance been supplied in order to understand what the minimum and maximum amount --Ingredients." 11 11 12 12 A. No. You don't know whether Q. Did you take into consideration these historical changes in the baby powder 13 that's parts per million, percent, 13 formulation when you reached your opinions in 14 milligrams, micrograms, femtograms, or some 14 15 other unit of measure. 15 this case? 16 O. Would that information be 16 A. Yes. I mean, I only had -- I 17 critical in order to understand the 17 think I had them for three days before the report was due, so it was kind of rushed. 18 concentrations of the specific chemicals in 18 19 the fragrance? 19 But what I saw was that from 2008 to 2014, 20 20 there were only minimal changes, and even Yes, along with other pieces of 21 information, too. That would be one -- one 21 with this information, it didn't look like 22 important part of doing that analysis. 22 there was any substantial change other than 23 And is that information that 23 styrene was changed styrax oil. You know, 24 24 Galaxolide 50 DEP I presumed to mean that it could only be provided by Johnson & Johnson, Page 351 Page 353 1 who is essentially the owner of the 1 was the Galaxolide dissolved at a 50 percent 2 fragrance? 2 level in diethyl phthalate, and that it was 3 3 replaced by Galaxolide 50 BB. I didn't know MR. ZELLERS: Form, objection. 4 what BB was, but I presumed it was a 4 A. I suppose so. 5 5 different solvent than diethyl phthalate. (Exhibit No. 34 marked) 6 6 So even with this information, BY MS. O'DELL: 7 Q. I want to show you what I've 7 there was not a whole lot that I could marked as Exhibit 34. This is a listing of 8 8 ascertain from it, but it didn't change my 9 9 chemicals very similar to Exhibit 34. And opinions. 10 10 just to make sure I didn't misstate that, And certainly the schedule in 11 producing your report was intense, but did this is Exhibit 35 that I handed to you. Is 11 12 you have sufficient time to do what was 12 that a list of chemicals --13 It's Exhibit 34. 13 necessary to render your opinions in this A. 14 14 case? Q. Is it? The first one was 33, and this 15 A. Yes, I did. I mean, more time 15 Α. 16 16 would have been nice, but I was able to get one is 34. 17 All right. Thank you. Is 17 the information that I needed to form my 18 Exhibit 34 a similar list of chemicals 18 opinions and had more than sufficient 19 information on which to base them. 19 that -- for Shower to Shower? 20 A. Yes. 20 I did want to make one last 21 And does it provide essentially 21 comment about Exhibit 35. Q. 22 the same information? 22 Q. Go ahead. A. Yes. 2.3 23 It looks likes styrene --24 Q. And is that information also 24 MR. ZELLERS: Objection.

Page 354 Page 356 1 BY MS. O'DELL: 1 chemicals. Right? So very likely there's 2 Q. If you have comments about 2 additive effects. 3 3 Exhibit 35, please share them with us. And then I talked about the fact A. Yeah. It looks like styrene was 4 4 that the fragrance chemicals have film 5 removed from the formula twice, about a week 5 formers like rosin and Chem 4 present and 6 apart. So it got removed on April 8th of 6 that they will help adhere the fragrance 7 7 chemical to the talc product. 2014, and then it got removed again on April 17th. So I didn't know if that meant 8 8 The rosin was used as a 9 that the amount was just reduced or if it was 9 sustained release matrix in the 10 completely replaced, and the information 10 pharmaceutical world to make extended release really is insufficient to make that judgment. 11 11 tablets. It's also being used as a film 12 12 Q. You were asked a number of coating to delay the release of drugs. So questions today regarding dose, the amount of 13 that fragrance chemical is going to go with 13 a particular concentration of a chemical, and 14 that talc particle wherever it may land, and 14 15 the impact of a dose of that chemical in your 15 it's also going to sustain the exposure of 16 analyses. 16 the fragrance chemical that may be attached 17 17 Is -- is information regarding dose essential for your opinions in this 18 18 And lastly, you know, I was also 19 case? 19 asked about the routine, you know -- the 20 exposure, you know, and could I determine, 20 A. No. 21 21 you know, how much was, you know, applied. O. Why? 22 22 Typical tox studies and safety studies are Well, as I said a bunch of 23 times, I was not provided the information to 23 short term. They might be multi-day, 24 be able to ascertain a dose. Even more 24 sometimes up to a couple of weeks or a month. Page 355 Page 357 1 importantly, the safety studies are absent 1 The FDA has recently published guidances that 2 for vaginal administration. So it's not 2 request safety studies in accord with the 3 just, you know, give a certain amount to, you 3 frequency of administration -- short term, 4 know, the skin or the vaginal area. You do 4 intermediate and long term. And for chronic 5 5 safety studies in animals for the intended administration, the expectation is that 6 route of administration. 6 they'll do two years. 7 In addition, content uniformity 7 So there have been repeated 8 8 doses, repeated exposures, and thousands of studies on the fragrance haven't been 9 provided. We asked for those as well. In 9 applications. 10 other words, if you're adding, you know, 10 And lastly, in this matter, baby 11 0.5 -- 0.05 percent styrene to the talc and 11 powder is directed to infants. Shower to 12 you make 1,000 kilos of baby powder and you 12 Shower is directed towards women. We have 13 sample the top, middle, and bottom, left, 13 two very different anatomies and physiologies 14 right, and middle, and you draw a sample and 14 in terms of most babies are a little bit 15 measure the uniformity and homogeneity of the 15 smaller than adult women. So all those 16 baby powder or Shower to Shower, is that 16 considerations need to be taken into -- into 17 fragrance chemical present in a uniform 17 consideration. 18 manner in each? 18 Lastly, you know, the question 19 Another consideration is, you 19 about dose is immaterial with genotoxic 20 know, the safety studies are usually single 20 materials. As I said earlier, a genotoxic 21 21 ingredient safety studies. So, you know, if material, there is no threshold for it. A we were to do a safety study of para-Cresol 22 22 single molecule is sufficient to cause harm. 23 in an animal, it would be simply that. It 23 Q. You were asked a series of 24 wouldn't be para-Cresol and another 142 other 24 questions about styrene, and the suggestion

	Page 358		Page 360
1	was made by counsel for J&J that styrene has	1	which is GHS. Do you recall that?
2	not been determined to be harmful in humans.	2	A. Yes.
3	Do you recall that line of questions?	3	Q. Is that a commercial database
4	A. Yes.	4	that requires some type of payment in order
5	Q. You know, has what's the	5	to be able to obtain all the information?
6	current IARC classification for styrene?	6	A. I believe so.
7	A. It was recently updated. I	7	Q. And that's not information that
8	think it's now a 2A.	8	you had access to. Correct?
9	Q. And what's a 2A?	9	A. No. I just I looked at that
10	A. IARC 2A is probably carcinogenic	10	work that was in the public domain.
11	to humans. It means limited evidence of	11	Q. And is the information in the
12	carcinogenicity in humans and sufficient	12	public domain that you had available to you
13	evidence of carcinogenicity in animal studies	13	the MSDS sheets that were produced by the
14	or inadequate evidence of carcinogenicity in	14	manufacturers of those substances?
15	humans and sufficient evidence of	15	A. Yes.
16	carcinogenicity in animals, and strong	16	Q. And so to the degree that J&J's
17	evidence that the carcinogen is meted by a	17	counsel suggested that somehow you had access
18	mechanism that does operate in humans.	18	to that database, that's not correct?
19	Q. Has the National Toxicology	19	A. That's correct.
20	Program evaluated styrene?	20	Q. And that would be something,
21	A. Yes.	21	typically, that would be available only to
22	Q. And what was their determination	22	manufacturers?
23	in terms of its potential ability to cause	23	MR. ZELLERS: Objection; form,
24	cancer?	24	foundation.
21	curicor.		Touridation.
	Page 359		Page 361
1	Page 359 MR. ZELLERS: Objection; form,	1	Page 361 A. That's correct, it would be
2		1 2	
	MR. ZELLERS: Objection; form,		A. That's correct, it would be available to those that want to pay for it. BY MS. O'DELL:
2	MR. ZELLERS: Objection; form, foundation.	2	A. That's correct, it would be available to those that want to pay for it.
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2 3 4 5	MR. ZELLERS: Objection; form, foundation. BY MS. O'DELL: Q. I'll restate the question. What was the National Toxicology's	2 3 4 5	A. That's correct, it would be available to those that want to pay for it. BY MS. O'DELL: Q. You were asked questions about I believe you referenced this
2 3 4 5 6	MR. ZELLERS: Objection; form, foundation. BY MS. O'DELL: Q. I'll restate the question. What was the National Toxicology's determination Program's determination	2 3 4 5 6	A. That's correct, it would be available to those that want to pay for it. BY MS. O'DELL: Q. You were asked questions about I believe you referenced this earlier in your testimony, and you used the
2 3 4 5 6 7	MR. ZELLERS: Objection; form, foundation. BY MS. O'DELL: Q. I'll restate the question. What was the National Toxicology's determination Program's determination regarding styrene?	2 3 4 5 6 7	A. That's correct, it would be available to those that want to pay for it. BY MS. O'DELL: Q. You were asked questions about I believe you referenced this earlier in your testimony, and you used the term "co-carcinogen." What's a
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2 3 4 5 6 7 8 9 10 11 12 13 14 15	MR. ZELLERS: Objection; form, foundation. BY MS. O'DELL: Q. I'll restate the question. What was the National Toxicology's determination Program's determination regarding styrene? A. I'm on Page Page are you talking about IARC or NTP? Q. NTP. Sorry. A. Sorry. I'm going to have to pull up that. Q. Let me just ask you this question and see if it has styrene been determined by NTP to reasonably as	2 3 4 5 6 7 8 9 10 11 12 13	A. That's correct, it would be available to those that want to pay for it. BY MS. O'DELL: Q. You were asked questions about I believe you referenced this earlier in your testimony, and you used the term "co-carcinogen." What's a co-carcinogen? A. A co-carcinogen is a chemical that by itself may not be carcinogenic, but when administered in the presence of a carcinogen, it increases the carcinogen's activity. Q. Were you asked to do an exposure assessment for any individual plaintiffs?
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	Page 362		Page 364
1	Q. Do your opinions in this case	1	anything further at the moment,
2	include those that you've expressed in your	2	Dr. Crowley.
3	report as well as your deposition here today?	3	
4	A. Yes.	4	FURTHER EXAMINATION
5	Q. Do you hold those opinions to a	5	
6	reasonable degree of scientific certainty?	6	BY MR. ZELLERS:
7	A. I believe so, yes.	7	Q. Dr. Crowley, are you aware of
8	Q. In reaching those opinions, have	8	any study that establishes styrene exposure
9	you used the methodology that's generally	9	as a cause or a contributing cause to ovarian
10	accepted in your field as a chemist?	10	cancer in humans?
11	A. Yes.	11	MS. O'DELL: Objection; asked
12	Q. And have you used the same rigor	12	and answered.
13	and attention to detail in this exercise in	13	A. Yeah, so as we've talked about,
14	your work in this case as you use in your	14	those studies are unethical, and that's why
15	practice in consulting and formulating drugs	15	there aren't any.
16	and other compounds?	16	MR. ZELLERS: I have no further
17	A. Yes.	17	questions. I do just want to put a
18	Q. You were asked questions by	18	notation on the record that at the
19	Imerys' counsel regarding the flotation	19	start of the deposition we received
20	process and the chemicals involved in the	20	this update. It's Exhibit we've
21	flotation process. Would it be fair to say	21	marked it as Exhibit 3. I have not had
22	that your work is ongoing in relation to that	22	a chance to look at it. It's possible
23	question?	23	that I may have some questions relating
24	A. Yes.	24	to Exhibit 3, once I do have a chance
	Page 363		Page 365
1	MR. FERGUSON: Object to form.	1	to look at it and study. I just want
2	THE REPORTER: Who was the	2	to put that notation on the record.
3	objection?	3	I'm not asking for an agreement.
4	MR. FERGUSON: Sorry.	4	MS. O'DELL: Well, no agreement.
5	THE REPORTER: Thank you.		
	THE REPORTER: Thank you.	5	This is your opportunity. I think,
6	BY MS. O'DELL:	5 6	This is your opportunity. I think, Counsel, you have time available to you
6 7	•		
	BY MS. O'DELL:	6	Counsel, you have time available to you
7	BY MS. O'DELL: Q. You were you cite in your	6 7	Counsel, you have time available to you if you want to take a break and look at
7 8	BY MS. O'DELL: Q. You were you cite in your report the CIR analyses of certain chemicals,	6 7 8	Counsel, you have time available to you if you want to take a break and look at it. It's a six-page document. It's
7 8 9	BY MS. O'DELL: Q. You were you cite in your report the CIR analyses of certain chemicals, to the degree they were available. Why did	6 7 8 9	Counsel, you have time available to you if you want to take a break and look at it. It's a six-page document. It's very straightforward, and you're
7 8 9 10	BY MS. O'DELL: Q. You were you cite in your report the CIR analyses of certain chemicals, to the degree they were available. Why did you include CIR as a part of the data you	6 7 8 9 10	Counsel, you have time available to you if you want to take a break and look at it. It's a six-page document. It's very straightforward, and you're welcome to ask Dr. Crowley questions,
7 8 9 10 11	BY MS. O'DELL: Q. You were you cite in your report the CIR analyses of certain chemicals, to the degree they were available. Why did you include CIR as a part of the data you reported?	6 7 8 9 10 11	Counsel, you have time available to you if you want to take a break and look at it. It's a six-page document. It's very straightforward, and you're welcome to ask Dr. Crowley questions, but he's he's here today to answer
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1			
1	Page 366		Page 368
_	walked into the deposition.	1	Johnson's counsel? And it's the
2	So I'm just making a note that I	2	A. I don't know if I still have it.
3	do want to go look at it, and at least	3	Hang on.
4	reserving the opportunity to raise it	4	Q. I'll be happy to provide you my
5	with the Court if we feel we need time	5	copy.
6	to ask questions about it.	6	A. Okay.
7	The other thing that I will ask	7	Q. Would you explain what Exhibit 3
8	is that I'll request that you update	8	is?
9	Deposition Exhibit 2, which are the	9	A. Exhibit 3 is a comparison of the
10	invoices, with whatever invoices have	10	chemical abstract numbers that I found based
11	been submitted by Dr. Crowley that have	11	upon the information that was provided to me
12	not been produced here today.	12	at the outset of my work on this matter with
13	MS. O'DELL: Let me just respond	13	those disclosed in the Exhibits 33 and 34 by
14	to that, because I've checked our	14	J&J. Out of 175 chemicals, I think we had
15	files. We don't have another invoice.	15	different CAS numbers for 11, and it turns
16	To the degree that there's an invoice	16	out that some of the CAS numbers provided by
17	in the future, which I'm sure there	17	J&J are effectively the same as mine, just
18	will be, obviously we'll give that to	18	multiple numbers for the same chemical.
19	you, but it's not deficient as we stand	19	For example, the first item was
20	here today. Just to point that out.	20	Boswellia carterii oil. We have two
21	note today. Vast to point that out.	21	different CAS numbers. When I searched what
22		22	the J&J CAS number was, I found that it it
23		23	says that that number refers to Boswell
24		24	Boswellia carterii resin. The CAS number I
			Boswenia carterii resiii. The Cris nameer r
	Page 367		Page 369
1		1	found was for Boswellia carterii oil,
2	FURTHER EXAMINATION	2	according to PubChem and the FDA website.
3		1	
		3	I also checked fragrance
4	BY MR. FERGUSON:	3 4	I also checked fragrance companies and verified that. So in this
4 5	BY MR. FERGUSON: Q. I have what I hope is just one		
	Q. I have what I hope is just one	4	companies and verified that. So in this case, it didn't represent any changes in my
5		4 5	companies and verified that. So in this
5 6	Q. I have what I hope is just one question, which is: With regard to the	4 5 6	companies and verified that. So in this case, it didn't represent any changes in my report.
5 6 7	Q. I have what I hope is just one question, which is: With regard to the question you just answered that Ms. O'Dell	4 5 6 7	companies and verified that. So in this case, it didn't represent any changes in my report. Some of the CAS numbers that were provided by J&J are clearly wrong.
5 6 7 8	Q. I have what I hope is just one question, which is: With regard to the question you just answered that Ms. O'Dell asked you regarding the flotation process and	4 5 6 7 8	companies and verified that. So in this case, it didn't represent any changes in my report. Some of the CAS numbers that
5 6 7 8 9	Q. I have what I hope is just one question, which is: With regard to the question you just answered that Ms. O'Dell asked you regarding the flotation process and your answer that your work is ongoing, I just	4 5 6 7 8 9	companies and verified that. So in this case, it didn't represent any changes in my report. Some of the CAS numbers that were provided by J&J are clearly wrong. They're I think there are some errors
5 6 7 8 9	Q. I have what I hope is just one question, which is: With regard to the question you just answered that Ms. O'Dell asked you regarding the flotation process and your answer that your work is ongoing, I just want to make clear, in your 200-page or so	4 5 6 7 8 9	companies and verified that. So in this case, it didn't represent any changes in my report. Some of the CAS numbers that were provided by J&J are clearly wrong. They're I think there are some errors there. For example, for Cedrus Atlantic
5 6 7 8 9 10	Q. I have what I hope is just one question, which is: With regard to the question you just answered that Ms. O'Dell asked you regarding the flotation process and your answer that your work is ongoing, I just want to make clear, in your 200-page or so report, there's not one word about anything	4 5 6 7 8 9 10	companies and verified that. So in this case, it didn't represent any changes in my report. Some of the CAS numbers that were provided by J&J are clearly wrong. They're I think there are some errors there. For example, for Cedrus Atlantic cedarwood bark oil I'm sorry. That's not
5 6 7 8 9 10 11 12	Q. I have what I hope is just one question, which is: With regard to the question you just answered that Ms. O'Dell asked you regarding the flotation process and your answer that your work is ongoing, I just want to make clear, in your 200-page or so report, there's not one word about anything relating to the flotation process that you	4 5 6 7 8 9 10 11 12	companies and verified that. So in this case, it didn't represent any changes in my report. Some of the CAS numbers that were provided by J&J are clearly wrong. They're I think there are some errors there. For example, for Cedrus Atlantic cedarwood bark oil I'm sorry. That's not the one I was thinking of. Well, copper chlorophyll. The
5 6 7 8 9 10 11 12	Q. I have what I hope is just one question, which is: With regard to the question you just answered that Ms. O'Dell asked you regarding the flotation process and your answer that your work is ongoing, I just want to make clear, in your 200-page or so report, there's not one word about anything relating to the flotation process that you evaluated. Correct?	4 5 6 7 8 9 10 11 12 13	companies and verified that. So in this case, it didn't represent any changes in my report. Some of the CAS numbers that were provided by J&J are clearly wrong. They're I think there are some errors there. For example, for Cedrus Atlantic cedarwood bark oil I'm sorry. That's not the one I was thinking of. Well, copper chlorophyll. The J&J CAS number does not correspond to copper
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	Page 370		Page 372
1	Exhibits 33 and 34 to those that are in my	1	
2	report.	2 3	CERTIFICATE
3	Q. Earlier in the deposition, J&J's	4	
4	counsel suggested that that you	5	I HEREBY CERTIFY that the witness was duly sworn by me and that the
5	plagiarized some of the general definitions	6	deposition is a true record of the testimony
6	that were contained in your report. Do you	7	given by the witness.
7	recall that line of questioning?	′	It was requested before
8	A. Yes.	8	completion of the deposition that the
9	Q. Any of that information that	9	witness, MICHAEL CROWLEY, Ph.D., have the opportunity to read and sign the deposition
10	J&J's counsel showed you today, did that		transcript.
11	change your opinions?	10 11	
12	A. No.		
13	Q. Have any impact on your	12	STEVEN STOGEL
14	opinions?	13	Certified LiveNote Reporter Certified Shorthand Reporter
15	A. No.	1 4	CSR No. 6174-Expires 12/31/20
16	Q. Were they anything more than	14 15	Dated: January 7, 2019
17	general definitions?	16	(TT) 0 1 1 1 T
18	MR. ZELLERS: Objection; form,	17	(The foregoing certification of this transcript does not apply to any
19	foundation.		reproduction of the same by any means, unless
20	A. Just foundational information,	18	under the direct control and/or supervision of the certifying reporter.)
21	you know, background information. I thought	19	of the certifying reporter.)
22	I got the definition of an irritant or a	20	
23	sensitizer from a medical dictionary. The	21 22	
24	fact that it's evidently word for word from	23 24	
	Page 371		Page 373
1	Wikipedia is really immaterial to how I	1	INSTRUCTIONS TO WITNESS
2	formed my opinion.	2	
3	MS. O'DELL: No further	3	Please read your deposition
4	questions.	4	over carefully and make any necessary
		4	over earcrafty and make any necessary
5	MR. ZELLERS: No further	5	corrections. You should state the reason in
6	questions. Thank you.		corrections. You should state the reason in the appropriate space on the errata sheet for
6 7	questions. Thank you. MR. FERGUSON: Nothing further.	5 6 7	corrections. You should state the reason in the appropriate space on the errata sheet for any corrections that are made.
6 7 8	questions. Thank you. MR. FERGUSON: Nothing further. MS. O'DELL: Thank you.	5 6 7 8	corrections. You should state the reason in the appropriate space on the errata sheet for any corrections that are made. After doing so, please sign
6 7 8 9	questions. Thank you. MR. FERGUSON: Nothing further. MS. O'DELL: Thank you. THE VIDEOGRAPHER: This	5 6 7 8 9	corrections. You should state the reason in the appropriate space on the errata sheet for any corrections that are made. After doing so, please sign the errata sheet and date it.
6 7 8 9 10	questions. Thank you. MR. FERGUSON: Nothing further. MS. O'DELL: Thank you. THE VIDEOGRAPHER: This concludes the deposition of Dr. Michael	5 6 7 8 9	corrections. You should state the reason in the appropriate space on the errata sheet for any corrections that are made. After doing so, please sign the errata sheet and date it. You are signing same subject
6 7 8 9 10 11	questions. Thank you. MR. FERGUSON: Nothing further. MS. O'DELL: Thank you. THE VIDEOGRAPHER: This concludes the deposition of Dr. Michael Crowley. Going off the record, the	5 6 7 8 9 10 11	corrections. You should state the reason in the appropriate space on the errata sheet for any corrections that are made. After doing so, please sign the errata sheet and date it. You are signing same subject to the changes you have noted on the errata
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PageID: 200440 Michael Crowley, Ph.D.

	Page 374			Page 376
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	ERRATA	2	PAGE LINE	
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	Page 375			
1				
2	ACKNOWLEDGMENT OF DEPONENT			
3				
4	I,, do			
5 6	hereby certify that I have read the foregoing pages, 1 - 376, and that the same is a			
7	correct transcription of the answers given by			
8	me to the questions therein propounded,			
9	except for the corrections or changes in form			
10	or substance, if any, noted in the attached			
11 12	Errata Sheet.			
13				
14				
15	MICHAEL CROWLEY, Ph.D. DATE			
16				
17 18	Subscribed and sworn			
10	to before me this			
19	day of, 20			
20	My commission expires:			
21				
22	Notary Public			
23	-			
24				

95 (Pages 374 to 376)

				Page 377
	aggented 94.24	adding 165.0	260.10.271.2	49:17
<u>A</u>	accepted 84:24 362:10	adding 165:9	269:10 271:2	
abandoned		355:10	273:2 315:12	agreement
174:13	access 15:14,15	addition 78:1,2	355:2,6 357:3	206:14 296:2
abbvie 48:7	24:24 299:14	301:13 344:22	357:5	365:3,4
aberrations	299:17 304:12	355:7	adrenal 280:11	ahead 24:5 40:3
118:5,12,24	305:13 343:21	additional 14:8	adult 357:15	126:9 205:18
288:7	360:8,17	16:13 24:14	advance 25:4	316:13 321:5
ability 81:14	accord 357:2	37:15 38:15,21	advisory 60:13	340:21 353:22
235:13 358:23	accountable	40:7 51:12	60:16	air 129:15
able 16:21 73:4	87:19 88:1	57:17 84:4	affairs 58:13	akela 47:19
144:5 200:24	accounted 44:19	156:20	affect 82:1	aklevorn 2:10
201:20 209:24	accuracy 211:9	additive 174:6,7	agency 197:11	al 115:19 116:6
252:4 267:17	accurate 31:1	174:10 356:2	236:5 281:4	176:23
331:1 353:16	43:21 250:4	additives 6:11	340:11	alabama 2:4
354:24 360:5	373:19	173:22 212:2	agent 240:8	alan 338:9
abnormal 234:2	accurately	address 39:5	242:5 243:9,21	alcohol 117:10
abovestyled	50:21	40:17 83:20	259:3 260:10	140:14
1:15	acid 119:6	310:13 336:14	263:5 266:22	alcon 46:13
abramovici	acknowledge	347:20 367:23	269:5 274:22	aldehyde 226:19
117:16	249:2	addressed 13:16	275:12 276:18	aliquots 137:18
absence 153:22	acknowledging	adenoma 277:9	agents 239:7	allegation 45:4
186:19 188:2	249:6	277:14	240:14 241:3	allen 2:2 13:17
188:13,17	acknowledgm	adenomas 184:7	242:1	allergen 322:17
274:5 275:7	375:2	256:5,23 262:5	ago 46:19 64:5	allergens 110:12
292:22	acquainted	265:7,9,10	301:9 338:18	300:18 321:20
absent 332:18	338:3	adequate 96:8	agree 32:19 33:4	321:22 322:4
355:1	acronym 120:6	259:20	83:20 84:10	322:12 327:24
absolutely 93:1	359:24	adequately	85:8 87:20	allergic 215:4,6
170:5 328:12	act 97:1,9 99:19	194:12	88:23 89:23	304:3 306:21
absorb 130:5	99:20,21	adhere 356:6	104:13 120:24	321:23 322:4
284:22	action 281:14,23	adheres 220:4	121:15 122:18	325:12,23
absorbed 81:19	activation 119:2	adjuvant 174:12	128:20 129:11	326:7
81:23 130:12	active 187:3	admin 274:16	130:3 131:2,10	allow 174:10
130:14,17,24	257:18	administer	155:24 157:12	283:19
257:11	activity 130:20	283:19	159:20 165:19	allowed 150:18
absorption	184:4 257:16	administered	166:24 175:17	152:21 169:21
129:16 229:10	328:7 334:23	205:4 269:13	175:24 186:19	318:19 319:2,8
232:7 268:10	361:13	328:2 361:11	188:19 190:12	319:18
abstract 19:9	actual 248:19	administration	190:16 212:14	almond 226:20
368:10	acute 215:1,11	130:1,19	212:22 213:9	228:8,19 229:1
	215:21,23	140:10,12,15	214:5,8,23	229:4,7,19
academy 120:3 121:10	309:22	140:20,20,24	215:9 245:5	almondscented
	add 11:11 36:9	151:20 152:24	253:16 259:17	228:12
acceptable 165:16 311:11	52:19 75:13	180:2,13,15	294:10 313:16	alsaleh 176:23
	145:21 220:1	182:9,12,15,18	334:11	alter 19:23
311:21 312:12	added 237:21	185:11 214:10	agreeable 52:20	aluminum 54:6
316:16	335:18	215:20 231:10	agreed 37:16	alveolar 265:8
	333.10	213.20 231.10	ag: 00 a 3 / . 10	

amanda 2:8 amending 174:9 amendment 6:5 170:10 america 3:10 amount 16:16 17:7 73:21,21 107:10 110:17 125:18 130:5 130:23 136:10 136:12,15 168:17,22	animal 114:18 115:6,9 128:10 128:12,13 183:7 184:16 185:1 196:5,18 213:1 217:24 218:1,5 222:2 235:6 256:2,13 257:20,22 258:20 261:16 262:2,9,10,19	108:2 111:14 113:18,24 115:5 126:7 128:16 132:9 140:1 142:3,21 144:6 146:13 152:1,3,4,8,12 152:17 159:17 176:9 184:22 187:16 196:2	337:11 364:12 367:7 answering 146:14 152:11 227:21 answers 75:14 191:9 263:14 263:17 267:6 268:2 375:7	315:2 320:12 322:13 324:4 326:18 344:12 344:16,20,23 appendix 31:5,7 31:14 110:8,8 150:21 303:22 305:12
amending 174:9 amendment 6:5 170:10 america 3:10 amount 16:16 17:7 73:21,21 107:10 110:17 125:18 130:5 130:23 136:10 136:12,15	115:6,9 128:10 128:12,13 183:7 184:16 185:1 196:5,18 213:1 217:24 218:1,5 222:2 235:6 256:2,13 257:20,22 258:20 261:16 262:2,9,10,19	113:18,24 115:5 126:7 128:16 132:9 140:1 142:3,21 144:6 146:13 152:1,3,4,8,12 152:17 159:17 176:9 184:22	367:7 answering 146:14 152:11 227:21 answers 75:14 191:9 263:14 263:17 267:6	322:13 324:4 326:18 344:12 344:16,20,23 appendix 31:5,7 31:14 110:8,8 150:21 303:22
amendment 6:5 170:10 america 3:10 amount 16:16 17:7 73:21,21 107:10 110:17 125:18 130:5 130:23 136:10 136:12,15	128:12,13 183:7 184:16 185:1 196:5,18 213:1 217:24 218:1,5 222:2 235:6 256:2,13 257:20,22 258:20 261:16 262:2,9,10,19	115:5 126:7 128:16 132:9 140:1 142:3,21 144:6 146:13 152:1,3,4,8,12 152:17 159:17 176:9 184:22	answering 146:14 152:11 227:21 answers 75:14 191:9 263:14 263:17 267:6	326:18 344:12 344:16,20,23 appendix 31:5,7 31:14 110:8,8 150:21 303:22
170:10 america 3:10 amount 16:16 17:7 73:21,21 107:10 110:17 125:18 130:5 130:23 136:10 136:12,15	183:7 184:16 185:1 196:5,18 213:1 217:24 218:1,5 222:2 235:6 256:2,13 257:20,22 258:20 261:16 262:2,9,10,19	128:16 132:9 140:1 142:3,21 144:6 146:13 152:1,3,4,8,12 152:17 159:17 176:9 184:22	146:14 152:11 227:21 answers 75:14 191:9 263:14 263:17 267:6	344:16,20,23 appendix 31:5,7 31:14 110:8,8 150:21 303:22
america 3:10 amount 16:16 17:7 73:21,21 107:10 110:17 125:18 130:5 130:23 136:10 136:12,15	185:1 196:5,18 213:1 217:24 218:1,5 222:2 235:6 256:2,13 257:20,22 258:20 261:16 262:2,9,10,19	140:1 142:3,21 144:6 146:13 152:1,3,4,8,12 152:17 159:17 176:9 184:22	227:21 answers 75:14 191:9 263:14 263:17 267:6	appendix 31:5,7 31:14 110:8,8 150:21 303:22
amount 16:16 17:7 73:21,21 107:10 110:17 125:18 130:5 130:23 136:10 136:12,15	213:1 217:24 218:1,5 222:2 235:6 256:2,13 257:20,22 258:20 261:16 262:2,9,10,19	144:6 146:13 152:1,3,4,8,12 152:17 159:17 176:9 184:22	answers 75:14 191:9 263:14 263:17 267:6	31:14 110:8,8 150:21 303:22
17:7 73:21,21 107:10 110:17 125:18 130:5 130:23 136:10 136:12,15	218:1,5 222:2 235:6 256:2,13 257:20,22 258:20 261:16 262:2,9,10,19	152:1,3,4,8,12 152:17 159:17 176:9 184:22	191:9 263:14 263:17 267:6	150:21 303:22
107:10 110:17 125:18 130:5 130:23 136:10 136:12,15	235:6 256:2,13 257:20,22 258:20 261:16 262:2,9,10,19	152:17 159:17 176:9 184:22	263:17 267:6	
125:18 130:5 130:23 136:10 136:12,15	257:20,22 258:20 261:16 262:2,9,10,19	176:9 184:22		305:12
130:23 136:10 136:12,15	258:20 261:16 262:2,9,10,19		760.7 275.7	1 1 1 1 6 1 5
136:12,15	262:2,9,10,19	187:16 196:2		apples 146:15
-		406494	anticipate 264:7	application
168:17,22		196:13,17	anticipated	59:22,24 200:6
· · · · · · · · · · · · · · · · · · ·	265:3,13 266:1	197:8 201:16	197:23 359:16	201:9 219:21
209:13,21	266:4 269:13	202:6 204:10	antonio 66:5	272:21,24
252:21 253:8	271:20 273:11	204:12 223:11	anus 231:17	308:6
286:11 312:13	273:13 274:13	224:11,22	anybody 59:14	applications
312:18 329:6	277:5,17	227:18 228:3,5	341:4	201:14 313:12
350:11 354:9	278:21 279:4,7	231:6 232:19	anytime 71:23	357:9
354:13 355:3	282:2 291:23	235:12 236:1	apart 354:6	applied 61:22
analyses 97:5	293:18 294:2	251:10,17	apparently	63:4 130:6
198:8 253:20	295:16 296:3	252:5 253:12	339:6	147:22 207:18
254:11 292:4	316:7 328:7	254:21 255:1	appear 28:16	214:11 227:5
307:13 354:16	355:23 358:13	256:1 261:2	39:3 98:4	229:8 231:15
	animals 212:12	264:12 267:13	172:23	313:13 356:21
analysis 71:9	234:10 238:24	273:15,21,24	appearances 2:1	applies 22:16
88:6 98:13	239:4,6 240:17	282:14,19	3:1	113:9 114:7
123:6 125:2	241:5,8 242:10	283:1 288:17	appeared	apply 128:12,17
133:1 134:18	242:14 243:4	293:15,16	160:17	372:17
143:24 153:21	244:21 245:3	317:5 318:16	appearing 14:13	applying 306:13
155:13 193:24	255:12 257:6	318:24 319:1,5	appears 13:10	306:14
201:1 214:21	260:2,5 262:18	319:12 320:21	14:18 18:17,22	approach 225:5
216:7,16 221:3	266:6 272:16	320:23 324:17	21:18 23:6	225:5
222:10,15	275:7 278:22	329:13,17,19	27:4 37:11	appropriate
223:2,15 224:3	280:13 284:1	336:17 346:21	99:2 104:16	56:16 89:21
229:13 232:1	287:18,20,22	347:8 365:11	161:2	92:14 103:14
253:14 269:1	296:10 355:5	367:9	appel 3:17 4:7	344:5,6 373:6
274:19 286:17	358:16	answered 59:6	339:7,9,14,16	appropriation
	anne 5:13 96:4	94:22 108:2	339:23 340:7	89:19
	annex 149:12	143:3,4 187:22	340:17	approval 60:9
	announcement	187:23 198:15	appendices 28:4	approve 318:5
analyze 73:9	173:20	216:1 223:6,8	28:5,11,16	approved 65:17
	answer 7:9 8:5	227:19 283:16	29:2 36:17	140:23 150:17
analyzing 73:8	10:19,24 17:15	298:10 302:24	78:5,8 90:22	151:16 169:13
anatomies	20:11 39:18,20	316:10 317:3,4	91:5 92:22	182:9
357:13	40:3 49:14	317:14,17	93:5,16 232:11	approximately
anderson	61:7,13 70:7	318:21 320:21	298:17 299:22	46:23 73:15
118:16	87:23 88:12	321:12 329:15	303:21 304:11	april 37:3 38:5,7
angeles 2:15	92:18 94:23	329:16,22	306:1 307:10	354:6,8

Dage 379

				Page 379
amaa 20.6 57.6	90.24 91.6	217.22 222.10	217.12 251.2	
area 30:6 57:6 82:16 229:8	80:24 81:6 83:4,9,21	317:22 323:19 323:20 365:3	217:13 251:2 associated 82:11	attempting 60:8 attendance 9:14
231:15 313:14	94:22 105:22		82:21,24 83:6	
328:2 355:4		assays 6:14 assertation	· · · · · · · · · · · · · · · · · · ·	attending 9:11
	107:19 108:2,4	283:23	85:7 132:2,8	attention 362:13
areas 30:13 45:22	123:7,24 124:2 124:23 125:5		133:18 142:7	attest 211:8
-		assess 132:13	179:17 187:11	attorney 373:16
arent 110:20	126:4,10 127:1	133:21 224:1	200:7 206:14	attorneys 63:8
288:15 343:1	138:7 143:3	assessment 5:19	213:4,8 216:23	336:20 347:14
364:15	183:12 184:10	71:9 96:5	218:3 219:7	348:5,12,13
argue 235:10	187:22 188:15	112:22 119:20	228:9,22	attribution
argument 165:4	190:21 194:13	120:12,22	246:23 256:4	90:15 91:7
arps 2:18	194:14 196:2	121:2,11,16,18	256:22 277:7	93:10 94:19
arrangements	196:13 199:11	121:18,24	278:10 288:3	103:11
22:22	200:22 201:13	122:3,15,24	300:21 309:1	audible 17:10
arriving 112:12	219:23 223:6,7	123:6,8,12,17	316:21	austin 1:18,18
123:10	224:8 229:23	124:4,22 131:6	associates	3:4
art 194:11 274:8	233:2 235:11	131:14 132:6	252:14 278:21	author 116:5
article 5:9,12,13	237:20 241:15	132:14,23	285:4	117:20
5:19 6:9,12	252:1,20	133:5,8,22	associating	authored 62:23
96:3,9,21 97:5	263:11,16	134:2,4,9,9	249:21 283:13	66:24
98:15 99:9	267:3,23 273:8	158:21,24	296:3	authoritative
176:20,24	273:9,10	159:7,21 160:5	association	363:22
177:17 178:20	283:16 295:2	161:21 175:20	114:15 149:7	authorities
179:2,22	298:10 302:15	176:3,8,12	156:22 157:4,7	110:4 301:16
284:13	303:6 310:14	190:19 191:21	157:8 158:10	authority 118:7
articles 67:17	317:3,14	200:14,19	262:2 265:4	127:22 283:18
74:10 76:6,13	320:19 321:12	204:20 221:4	271:21 279:14	287:6,16
90:5,9 91:14	329:11,16	221:10 223:3	assume 11:1	288:11 301:17
92:6 93:9	332:17 336:16	223:16,17,21	81:6 219:23	340:15
94:17 103:8	337:11 343:5	223:24 224:3	assuming	authors 77:19
116:9 155:20	349:18 354:12	225:8,11,13	207:19 223:10	91:6 103:9
artificial 226:20	355:9 356:19	253:3 268:1	227:4 228:7,21	126:21 178:20
228:8,18 229:1	357:23 359:22	292:1 293:5	267:21	available 65:4
229:4,19	361:4,14,17	308:5 310:6	assumption 82:1	66:1 73:18
arts 51:4	362:18 364:11	322:2 324:8	assumptions	118:9 133:16
asbestos 33:10	367:8	361:15	81:1 83:15	134:22 137:21
50:16 67:2,20	asking 88:9	assessments	assurance 58:13	205:3 232:6
108:17	113:13,17	132:24 182:14	atlantic 369:10	247:20 261:22
ascertain 269:14	129:14 133:10	204:16 299:3	atp 291:5	264:21 277:3
353:8 354:24	133:12,13	assignment	attached 1:19	278:19 287:12
asher 34:3,4,5	138:12 141:7	63:17	220:15 344:12	289:1 291:23
34:13,18 35:8	141:14,17	assist 33:20 34:6	356:16 373:12	303:4,7 307:3
aside 24:10 42:1	153:15 160:8	assistance 35:11	375:10	315:11 320:2,7
asked 31:8,15	224:12,13	64:22	attempt 123:5	326:2 343:19
33:11 38:17	235:8,18	assisted 33:23	138:24	343:20 360:12
39:1,7 40:8,17	267:21 279:12	35:23	attempted	360:21 361:2
59:14 73:9	297:1 305:14	associate 195:22	326:18	363:9 365:6

				Page 380
2 10 2 2	207.20.200.21	171 15 172 0	40.5.60.15	220 7 17 22
avenue 2:19 3:3	207:20 209:21	171:15 172:9	49:5 60:15	228:7,17,22
3:8	216:10 217:15	172:17 188:10	behavior 310:10	230:23 232:3
average 302:6	225:15,24	304:24 318:3	believe 10:8	232:24
aware 25:10	232:24 233:7	banned 160:15	13:15 15:7,13	benzene 169:1,6
36:2 89:13	236:4 237:15	169:15 191:17	20:5 22:14,15	173:5,11,21
90:3 95:24	243:19 252:22	banning 159:3	24:18 30:4	197:12 226:19
100:4 102:3,18	286:12,22	161:24 174:18	31:2,4 33:19	benzophenone
106:15 114:9	302:11 309:16	bark 369:11	37:3,5 41:18	7:5 198:19
120:24 185:4	323:19 324:7	base 353:19	47:15 60:19	236:20,23
195:21 196:21	325:17 326:5	based 85:3	68:12,17 69:3	275:12,22
198:18 199:15	328:18 329:6	125:16 126:11	75:5 77:11	276:14,24
199:16 211:7	330:2,19 334:8	136:2 147:21	78:16 84:8,14	277:6,18 278:3
211:10 217:12	345:14 346:18	169:10 184:5	91:18,19 93:13	278:13,22
228:17 249:20	346:24 347:4	205:24 253:19	93:14,14 94:4	279:13
252:13 270:11	349:5 350:1	254:10 278:18	95:1,23 98:8	benzyl 117:10
279:5 282:5,15	352:10,13	291:10 292:21	100:9,13	140:14
283:12 284:9	355:12,16	293:9,17 302:3	101:11 102:5,9	bernardo
285:10 298:2	357:10	336:17 343:23	113:6 114:4,14	349:17
314:15 316:2	bachelors	368:10	116:12 126:14	best 36:14 61:8
316:23 317:10	341:20	basic 5:9	126:17 142:13	76:11 84:9
317:24 318:14	back 16:9 27:13	basis 14:24	147:3,9,12	169:18 235:12
318:20 364:7	34:15 68:7,23	63:16 84:2	148:6 155:19	256:1 316:6
awful 73:14	105:3 168:11	91:1 184:14	162:2 169:20	324:21 325:3
awfully 219:21	169:22 173:5	215:17 216:2	174:15 177:19	better 141:20
B	192:6 217:11	301:6 309:10	178:18 181:12	150:9 166:1
b 4:12 5:2 6:2	218:17 234:13	320:1 321:8	193:15,18	264:13 310:12
7:2 110:8	245:22 289:14	bathe 189:3	199:22 200:5,9	334:16
b6c3f1 293:3	294:21,24	bay 57:6	210:7,19	bias 84:3 85:6
babies 357:14	295:4 319:11	bb 353:3,4	218:10,19	86:13 88:4,20
baby 7:10,13	321:1 329:18	beach 265:19	219:6 221:22	biased 84:12
31:5 32:20,22	333:10 345:8	bearing 19:19	240:20 244:15	85:6
105:7 114:10	background	beasley 2:2	248:4 254:14	big 153:18
114:24 116:12	50:22 122:10	13:17	258:2 259:5	bill 34:12,20,21 34:23
119:10 135:4	122:14,16	beasleyallen 2:5	262:6 263:3	
135:18 136:2	291:1 370:21	2:6	267:8 276:16 278:10 281:11	billed 37:19
136:10,13,20	bacteria 205:8	becoming 101:19		biller 14:19
137:8 140:14	bacterial 205:14		284:14 285:15	billing 14:21 35:9
140:16 141:23	bad 121:6 348:1	beginning 11:17 71:23 95:18	289:4,19 293:7	
142:24 143:12	balsam 6:6,8		297:6,23	bioavailability
143:19 144:19	162:12,16	103:1 105:3 192:6 294:21	298:16 308:17	130:10
147:3 168:18	164:17,21 165:20 166:2	341:15	318:16 329:21 338:10 339:2	biological 31:24 130:20 257:16
170:20 172:7	167:23 168:4,7			328:7 342:1
173:1 192:10	· · · · · · · · · · · · · · · · · · ·	begins 9:2 29:11 104:9 218:24	360:6 361:5,20 362:7	
192:17 193:15	168:12,17 169:23 170:1	249:17		biorelevant 274:11
196:9 197:9			benzaldehyde 115:14 226:6	bit 74:7 174:2
200:3 201:9,21	170:12,19 171:7,7,8,12	behalf 10:2 46:14,17 48:6	226:13,15,16	193:8 198:12
200.5 201.7,21	1/1./,/,0,12	40.14,1/40.0	220.13,13,10	173.0 170.14
L				

				Page 381
241 16 2 7 7 1 1	 , ,,,,	100.00.100.1	270 14 22	100 04 010 15
341:16 357:14	brand 55:5	102:20 123:1	278:14,23	198:24 212:13
bladder 280:12	break 12:3	200:10 205:2	279:4,8 283:14	237:24 244:1,4
blanket 229:11	15:18 16:10	205:20 257:14	285:6,11 288:4	244:7 258:1
blend 137:18	71:24 72:3,7	290:11 292:8	289:13 293:22	259:19,21
blended 137:16	104:21 185:13	327:10	294:3,11	262:16 263:1,1
306:15	189:13 191:23	calls 342:17	295:17 296:5	266:12,13
blending 306:19	245:11,14	campion 338:9	297:8,8,10,20	281:10 282:7
306:22	294:13 365:7	338:11,12,20	297:20 298:6,7	290:3 292:13
blood 219:19	briefly 39:7	canada 46:22	299:4,5 300:13	292:19,24
309:2	339:10	71:17,20 279:6	300:22 307:15	293:9 358:17
blow 245:12	bring 22:4	canadian 75:7	307:22 308:3	359:17 361:12
board 43:9,19	bringing 57:9	310:6,24	309:24 310:10	carcinogenesis
51:15 54:8	broad 229:12	canadians 308:5	310:11 315:22	262:17
bodies 147:19	broader 193:9	canal 2:9	316:4,8,18,22	carcinogenic
149:16,20	broken 214:6	cancer 62:24	317:1,12	6:17 184:4
151:22 153:2	bronchiolar	67:2,19 71:14	318:15 320:16	198:1 237:4
182:8,11	265:8	71:20 82:6,12	322:18 324:23	238:12,16
bodily 101:18	brought 18:15	83:1,7 106:4,5	325:2 327:18	239:14 242:6
body 28:2,21	23:13,15	106:13,18,18	332:3,16,19	243:9,13,16
29:1 77:3	buffers 331:20	106:24 108:9	358:24 364:10	245:6,9 255:8
82:20 91:3,15	build 153:9	114:12 115:1,2	cancers 82:22	255:13 276:18
93:5,7 94:16	186:24	116:13 117:6	105:20 114:19	276:21 281:6
130:13,24	built 110:9	147:15 183:1	216:24 217:8	291:2 296:10
214:6 273:17	bullet 87:15	185:7 194:23	250:11	334:22,23
280:9	bunch 116:14	195:12,15,17	candid 155:23	358:10 361:10
book 4:20 23:9	327:22,23,24	195:23 196:10	300:5	carcinogenicity
64:1,4 77:6	330:20 354:22	196:24 197:6,7	cant 47:2 55:10	6:15 81:13
301:11 305:20	burn 308:23	197:11 199:7	64:20 72:18	105:16 192:13
books 63:23,24	burns 2:8	199:18 200:7	73:2 77:18	198:4 203:10
77:14 112:2	burnscharest	210:5 212:16	113:19 128:12	212:7 221:19
bookshelf 77:17	2:10	212:17,24,24	137:13 246:11	238:18,22
borderline	business 12:22	213:5,21,24	255:6 287:1	239:3,6 240:5
293:1	busy 37:21	214:2,4 216:11	308:17 330:3,8	240:9,15 241:4
borrowed 146:1	buy 55:8 299:14	216:20 217:16	330:18,24	241:8 242:8,10
146:3		219:8,10	332:5	242:12,13,16
bosch 282:1	$\frac{c}{c}$ 2:13 5:13	228:10,11,23	capable 126:14	242:18 243:2,3
boswell 368:23	51:22	228:24 229:21	365:15	244:19,20
boswellia	calcium 54:6	229:23 233:18	capped 325:10	245:1,3 249:17
368:20,24	california 2:15	234:7,9,20	caps 70:12	252:10 254:6
369:1	call 64:6 129:24	235:2 236:6	325:16	256:14,17
bottle 136:20	174:1 199:20	246:18,19	capsules 71:2	257:7 258:19
137:4	294:8 342:10	251:3 252:3,15	caption 27:1	258:20 259:9
bottom 121:4,8	349:6	261:20,23	capture 30:5	260:1,3,11
121:12 158:11	called 43:3,4	264:17,22	31:11	268:8,15,20
177:22 355:13	49:4,7 55:7	270:5,13 271:8	carcinogen	269:6 274:9,23
bought 205:21	57:4,5 69:9	276:24 277:8	195:18 197:15	275:6,9,14
boutwell 281:24	」	277:19 278:13	197:23 198:22	284:3,10 291:6
	1	1	1	<u>. </u>

292:22 297:4 204:20 214:21 106:12,18 231:1.2 285:18 20:1,14 142:12					Page 382
328:9,13,16 227:12 253:9 108:9 125:23 286:4 288:7 143:6,7 144:4 335:13 358:13,14,16 293:1,13,18 183:21 195:12 certinogens 125:24 195:8 312:20 325:24 199:7 212:15 210:19 237:13 203:19 204:9 337:15,20 246:17 297:8,8 237:16 300:13 346:13 348:1 336:3 34:12 336:13 334:21 361:12 237:16 300:13 346:13 348:1 352:15 353:14 207:20 298:6 227:20 298:6 227:12 26arcinoma 271:1 362:1,14 369:5 230:15 321:9 232		l	l		
343:15 358:12 (283:13,18,18) 293:1,13,18 (293:1,13,18) 183:21 195:12 (201:17) cellular 286:3 (201:14) 144:7 352:9,13 (201:17) 262:24 195:8 (27:18) 325:24 334:12 (297:12):15 190:10,24 (201:19) certain 11:13 (201:19) 373:11 375:9 (201:19) 203:19 204:9 (237:16) (201:13) 337:15,20 (246:17) 297:8,8 (228:24) 237:16 300:13 (21:15 353:14 (297:20) 298:6 (247:16) (280:24) 135:13 145:17 (21:19) 125:2 (228:4255:15 (247:5) (247:15)			,	· · · · · · · · · · · · · · · · · · ·	*
358:13,14,16 293:1,13,18 183:21 195:12 center 174:8 352:20 369:5 125:24 195:8 312:20 325:24 199:7 212:15 210:19 373:11 375:9 197:12 202:17 336:12,13 212:23 221:18 13:2 63:14 certain 11:13 characteristic 236:7,17 343:6 345:14 297:20 298:6 66:22 80:24 135:13 145:17 121:19 125:2 2arifo 300:13 346:1,3 348:7 299:4 301:3 163:23 165:15 134:13 271:1 352:15 353:14 307:14 308:15 215:4 217:5 characterize carcinoma 275:5,24 262:6 352:19 36:12 309:7 316:1,20 228:4 255:15 225:114 268:0 265:9,12,24 301:5 309:9 322:18 323:18 355:3 363:8 certainly 61:22 255:18 characterized 272:24 272:24 319:24 325:23 326:7 68:17 82:8 characterized 279:17 9:32:19 339:16 340:7 6asep 1.8 10:9 44:24 79:20,24 42:24 79:20,24 42:24 79:20,24 42:24 79:20,24 42:24 79:20,24 42:24 79:20,24 42:24 79:20,24 42:24 79:20,24 42:24 79:20,	· · ·				· · · · · · · · · · · · · · · · · · ·
carcinogens 312:20 325:24 196:10,24 210:19 373:11 375:9 characteristic 125:24 195:8 325:24 334:12 199:7 212:15 certain 11:13 137:13 375:9 characteristic 125:24 195:8 336:12,13 246:17 297:8,8 66:22 80:24 characteristic 237:16 300:13 334:63 45:14 297:20 298:6 135:13 145:17 121:19 125:2 237:10 300:13 336:13, 348:7 299:4 301:3 352:15 353:14 307:14 308:15 215:4 217:5 characterizati 271:1 354:19 361:23 352:15 353:14 309:7 316:1,20 228:4 255:15 characterized 265:9,12,24 301:5 309:9 320:15 321:9 334:15,18 255:18					· · · · · · · · · · · · · · · · · · ·
125:24 195:8 325:24 334:12 199:7 212:15 certain 11:13 13:2 63:14 127:13 23:19 204:9 337:15.20 229:20 298:6 135:13 145:17 121:19 125:2 236:7,17 343:6 345:14 299:20 298:6 135:13 145:17 121:19 125:2 23:18 23:16 300:13 346:1,3 348:7 299:4 301:3 163:23 165:15 215:42 17:5 carcinoma 271:1 362:1,14 369:5 309:7 316:1,20 228:4 255:15 225:14 268:20 326:5,24 262:6 215:17 216:2 320:15 321:9 334:15,18 325:23 335:3 363:8 certainly 61:22 257:14 268:20 23:19 335:13 33:8 25:17 226 23:19 335:13 33:8 23:19 335:23 326:7 68:17 82:8 charect 2:8 charec		, , ,			
197:12 202:17 336:12,13 337:15,20 337:15,20 236:7,17 7343:6 345:14 237:16 300:13 346:1,3 348:7 239:14 308:15 237:16 300:13 346:1,3 348:7 239:14 308:15 228:4 255:15 237:14 268:20	C		,		
203:19 204:9 236:7,17 337:15,20 343:6345:14 297:20 298:6 334:13 348:7 297:20 298:6 334:13 361:12 26arcinoma 271:1 246:17 297:8,8 297:20 298:6 315:13 145:17 299:4 301:3 309:7 316:1,20 309:7 316:1,20 209:7 316:1,20 209:7 316:1,20 209:7 316:1,20 209:7 316:1,20 209:13 231:8 256:5,24 262:6 265:9,12,24 272:24 24 care 3:21 172:6 262-899;40:2 246:17 297:8,8 299:4 301:3 309:7 316:1,20 215:4 217:5 225:14 268:20 309:7 316:1,20 209:15 321:9 330:15 321:9 332:18 333:18 301:5 309:9 332:18 333:18 250:12 250:12 263:18 10:9 264:24 79:20,24 264:24 79:20,24 279:20 298:7 271:24 288:1 306:11 321:15 306:12 306:1 278:13 278:13 308:21 32:4 171:24 172:1 172:24 350:7 368:15,16,21 368:22,24 369:7,14,17,21 369:24 299:14 238:21 203:18,19 209:14 238:21 203:18,19 209:14 238:21 203:18,19 209:14 238:21 203:18,19 209:14 238:21 203:18,19 209:14 238:21 203:18,19 209:14 238:21 203:18,19 209:14 238:21 203:18,19 203:18,29 203:18,29 203:18,29 203:18,29 203:18,29 203:18,29 203:18,29 203:18,29 203:18,29 203:18,19 203:18,29 203:18,29 203:18,20 308:21 321:14 308:22,24 308:21 321:4 203:18,19 203:18,19 203:18,19 203:18,29 308:21 321:14 308:22,24 308:21 321:14 308:22,24 308:21 321:14 203:18,19 308:21 321:14 203:18,19 308:21 321:14 203:18,19 308:21 321:14 203:18,19 308:22 338:8 26lb 114:18 203:18,19 308:21 321:14 203:18,11,17 203:18,11,17 203:18,11,17 204:22 203:18,20 308:11 32:22 333:18 308:21 321:14 203:18,11,17 204:22 203:18,11,17 204:22 203:18,11,17 204:22 203:18,11,17 204:22 203:18,11,17 204:22 203:18,11,17 204:22 203:18,11,17 204:22 203:18,11,17 204:22 203:18,11,17 204:22 203:18,11,17 204:22 203:18,20 204:22 203:24 204:14 33:24 205:16,28 206:16,28 206:17 207:14 268:25 206:12 200:22 203:24 206:18,20 203:24 206:18,20 203:24 206:18,20 203:18,20 206:12 203:24 203:18 206:18,20 203:24 203:18,20 203:22 203:24 203:18,20 203:22 203:					
236:7,17 237:16 300:13 334:21 361:12 carcinoma 271:1 352:15 353:14 362:1,14 369:5 carcinomas 271:1 362:1,14 369:5 carcinomas 256:5,24 262:6 265:9,12,24 272:24 272:24 272:24 272:24 272:29 273:16 300:13 352:1,14 369:5 215:17 216:2 321:10 322:3 309:7 316:1,20 334:15,18 215:2 4255:15 2257:14 268:20 235:13 33:8 carcinomas 215:17 216:2 232:10 322:3 355:3 363:8 carcinomas 2256:5,24 262:6 265:9,12,24 319:24 272:24 272:24 272:24 272:24 272:29 272:29 272:29 272:29 272:29 272:29 272:29 272:29 272:20 272:2					
237:16 300:13 334:21 361:12 235:15 353:14 235:15 353:14 235:19 361:23 309:7 316:1,20 362:1,14 369:5 236:5,24 262:6 245:71 216:2 230:15 321:9 321:10 322:3 321:10 322:3 321:10 322:3 321:10 322:3 322:18 323:18 256:5,24 262:6 215:17 216:2 232:18 233:18 256:9,12,24 272:24 319:24 272:24 319:24 322:18 323:18 231:10 322:3 339:16 340:7 24:24 79:20,24 24refully 373:4 250:12 306:1 278:13 241:24 161:21 186:16 24refi 34:3,3 250:12 306:1 278:13 240:14 166:4 171:24 172:1 171:24 350:7 368:12,14 369:7,14,17,21 368:22,24 369:7,14,17,21 368:22,24 369:7,14,17,21 369:24 299:24 24:16 368:22,24 369:7,14,17,21 368:22,24 369:7,14,17,21 368:22,24 369:7,14,17,21 369:24 299:20 298:7 299:4 301:3 299:4 301:3 291:2 369:2 215:2 306:1 204:24 306:18 321:19 349:22 358:23 369:11 229:7 244:10 249:2 278:13 240:13 241:6 304:22 308:18 299:20 298:7 246:11 362:6 246:		,			
334:21 361:12 carcinoma 352:15 353:14 369:23 362:1,14 369:5 364:19 361:23 362:1,14 369:5 carcinomas 352:15 353:14 369:5 228:4 255:15 228:4 255:15 228:4 255:15 228:4 255:15 228:4 255:15 225:13 49:10 228:4 255:5,24 262:6 265:9,12,24 301:5 309:9 322:18 323:18 233:18,115 272:24 272:24 26are 3:21 172:6 178:2 179:8,19 339:16 340:7 2areer 342:2 24retrilly 373:4 250:12 362:2 362:19 357:22 358:23 329:16 340:7 2arefully 373:4 2arefully 373:4 2arefully 373:4 250:12 306:11 321:15 368:24 369:1 26as 18:109 250:12 306:11 321:15 120:11 163:11 212:12 20:12 20:12 20:12 20:12 30:13 30:18 23:18 23:18 23:18 23:18 23:18 23:18 23:19 24:14:14 25:12 27:2 30:12 30:12 30:12 27:2 30:12 30:12 30:12 30:13 30:13 30:14 30:13 129:14 166:4 148:16 149:24 171:24 172:1 150:11 163:11 20:11 163:	· · · · · · · · · · · · · · · · · · ·				
carcinoma 354:19 361:23 309:7 316:1,20 228:4 255:15 215:21 349:10 carcinomas casebycase 320:15 321:9 321:10 322:3 334:15,18 255:5,24 262:6 215:17 216:2 321:10 322:3 334:15,18 255:18 characterized 253:18 characterized 253:18 charest 2:8 chase 250:20 charest 2:8 chase 250:20 charest 2:8 chase 250:20 check 16:4,12 256:5,24 26:6 257:14 268:20 334:15,18 355:3 363:8 charest 2:8 charest 2:8 chase 250:20 check 16:4,12 256:5,24 26:6 253:18 256:5,24 26:6 253:18 250:12 357:22 358:23 336:13 334:15,18 355:3 363:8 charest 2:8 chase 250:20 check 16:4,12 26:81 368:17 82:8 chase 250:20 check 16:4,12 278:13 39:24 193:11 175:16 186:12 278:13 39:24 193:11 175:16 186:12 278:13 349:22 353:10 202:22 229:99 201:19 19:19 19:10 202:22 239:99 202:22 239:99 202:22 239:99 202:13 245:11 236:14 19:22 236:14 19:22 236:14 19:32:11 237:18 24:18 19:23 24		· ·			
271:1 362:1,14 369:5 317:5 319:22 257:14 268:20 characterized 256:5,24 262:6 215:17 216:2 320:15 321:9 334:15,18 253:18 265:9,12,24 301:5 309:9 322:18 323:18 355:3 363:8 chase 250:20 272:24 319:24 325:23 326:7 68:17 82:8 chase 250:20 278:21 79:8,19 250:12 327:17 332:19 139:24 193:11 15:26 149:3 339:16 340:7 2career 342:2 44:24 79:20,24 career 34:23 2carefully 373:4 161:21 186:16 278:13 306:18 331:19 197:19 199:10 2arefully 373:4 250:12 306:1 278:13 2349:22 353:10 202:22 229:9 carterii 368:20 306:11 321:15 182:24 185:6 246:11 36:2 246:11 36:2 219:12,15 127:2 2ategories 145:4 297:20 298:7 27:124 288:1 26:14 369:3 28:15,16,21 297:7 2ategory 198:23 369:11 230:14 238:21 2ertified 1:17 366:14 369:3 308:21 32:4 230:13 24:6 230:13 24:6 230:13 24:6 230:14 26:11 230:24 26:11 <td></td> <td></td> <td></td> <td></td> <td></td>					
carcinomas casebycase 320:15 321:9 334:15,18 256:5,24 262:6 215:17 216:2 321:10 322:3 335:3 363:8 charest 2:8 chase 250:20 check 16:4,12 265:9,12,24 319:24 325:23 326:7 68:17 82:8 certainly 61:22 chace 250:20 check 16:4,12 2are 3:21 172:6 250:12 327:17 332:19 128:4 133:24 16:20 149:3 178:2 179:8,19 339:16 340:7 cases 18 10:9 357:22 358:23 139:24 193:11 175:16 186:12 2arefully 373:4 161:21 186:16 278:13 306:18 331:19 197:19 199:10 cartici 34:3,3 250:12 306:1 caused 144:1 306:18 331:19 197:19 199:10 cas 4:17 19:1,2 127:2 306:11 321:15 182:24 185:6 246:11 362:6 271:24 288:1 19:12,15 categories 145:4 148:16 149:24 199:12 272:20 298:7 246:11 362:6 366:14 369:3 366:14 369:3 372:16 261 4369:3 366:14 369:3 372:16 261 4369:3 366:14 369:3 372:16 271:24 288:1 289:19 297:20 298:7 372:11 271:13 281:2 <td></td> <td></td> <td>· · · · · · · · · · · · · · · · · · ·</td> <td></td> <td></td>			· · · · · · · · · · · · · · · · · · ·		
256:5,24 262:6 215:17 216:2 321:10 322:3 355:3 363:8 charest 2:8 265:9,12,24 301:5 309:9 322:18 323:18 322:18 78:28 certainly 61:22 check 16:4,12 272:24 319:24 325:23 326:7 68:17 82:8 check 16:4,12 178:2 179:8,19 250:12 357:22 358:23 139:24 193:11 16:20 149:3 339:16 340:7 cases 1:8 10:9 364:9,9 216:15 306:17 190:15 191:4 carrie 34:3,3 250:12 306:1 caused 144:1 36:18 331:19 197:19 199:10 236:24 369:1 250:12 306:1 causes 147:15 certainty 142:5 27:24 2229:9 19:12,15 categories 145:4 194:23 216:21 certificate 372:2 27:24 288:1 17:12,17 127:2 304:2,2 308:18 certified 1:17 366:14 369:3 17:22,24 350:7 225:7 244:10 299:5 372:12,13 19:9 31:6,9,24 2368:22,24 203:18,19 369:11 certify 372:5 chemical 18:24 230:8,21 32:4 244:8,17 290:3 369:11 certify 372:5 110:1,16,20		· ·			
265:9,12,24 272:24 301:5 309:9 319:24 322:18 323:18 325:23 326:7 certainly 61:22 68:17 82:8 chase 250:20 check 16:4,12 178:2 179:8,19 339:16 340:7 career 342:2 carefully 373:4 carrie 34:3,3 250:12 44:24 79:20,24 carefully 373:4 335:23 326:7 24:24 79:20,24 carefully 373:4 250:12 24:27 16:21 186:16 250:12 306:1 250:12 306:1 306:11 321:15 278:13 278:13 278:13 278:13 306:18 331:19 349:22 353:10 197:19 199:10 202:22 229:9 carterii 368:20 368:24 369:1 cas 4:17 19:1,2 19:12,15 127:2 304:23 308:18 127:2 304:2,2 308:18 248:16 149:24 297:20 298:7 225:7 244:10 297:7 368:15,16,21 368:22,24 368:22,24 368:22,24 230:24 238:21 244:8,17 290:3 30:8,21 32:4 244:8,17 290:3 30:8,21 32:4 30:8,21 32:4 47:11 50:16,19 297:9 305:9 47:11 57:16 297:7 209:14 238:21 209:14 238:21 209:14 238:21 209:19,24 297:20 298:7 209:14 238:21 200:18 149:24 209:19,24 category 198:23 308:21 32:11 369:11 221:12 369:11 221:12 372:16 221:12 366:14 369:3 261:10 16:11 299:5 277:13 285:22 297:12 299:5 277:13 285:22 297:19,24 230:24 265:11 308:21 321:14 372:16 230:24 265:11 308:21 321:14 290:14 238:13 30:16 230:24 265:11 322:19,24 372:16 230:24 265:11 328:8 291:3 292:19,24 388:8 213:22 2133:7 244:8,17 290:3 328:8 291:3 292:19,24 388:8 213:22 27:15 136:10,13,16 136:10,					
272:24 319:24 325:23 326:7 68:17 82:8 check 16:4,12 care 3:21 172:6 casecontrol 327:17 332:19 128:4 133:24 16:20 149:3 339:16 340:7 cares 18:10:9 364:9,9 216:15 306:17 20:15 191:4 carefully 373:4 16:21 186:16 278:13 349:22 353:10 20:22 229:9 carterii 368:20 366:14 369:1 catalog 11:3 127:2 304:22 308:18 246:11 362:6 271:24 288:1 cas 4:17 19:1,2 catalog 11:3 127:2 304:2,2 308:18 229:29:9 271:24 288:1 19:12,15 catalog 11:3 127:2 304:2,2 308:18 227:12 288:1 271:16 26:6 278:13 109:14 166:4 148:16 149:24 150:11 163:11 299:5 372:16 20:212 29:9 20:22 29:9 17:24 350:7 225:7 244:10 297:7 299:5 372:16 20:213 39:18 29:31:16; 30:11 20:16:13 30:11 20:16:15 30:11 20:17:24 288:1 20:18:18:20 20:18:18:20 20:18:18:20 20:18:20 20:18:20 20:18:20 20:18:20 20:18:20 20:18:20					
care 3:21 172:6 178:2 179:8,19 339:16 340:7 casecontrol 250:12 cases 1:8 10:9 44:24 79:20,24 44:24 79:20,24 carefully 373:4 161:21 186:16 250:12 306:1 278:13 306:12 366:2 368:24 369:1 109:14 166:4 171:24 172:1 172:24 350:7 368:15,16,21 368:22,24 368:22,24 369:7,14,17,21 369:7,14,17,21 369:24 209:14 238:21 299:5 230:24 299:9 200:22 229:9 271:24 288:1 299:5 297:20 298:7 297:20 298:7 297:12 13 306:11 32:11 299:5 369:11 290:14 238:21 290:14 238:21 230:24 265:11 230:24 265:11 230:24 265:11 230:24 292:19,24 292:19,24 293:9 305:9 293:9 305:9				•	
178:2 179:8,19 250:12 357:22 358:23 139:24 193:11 175:16 186:12 339:16 340:7 career 342:2 44:24 79:20,24 161:21 186:16 216:15 306:17 190:15 191:4 career 342:2 44:24 79:20,24 161:21 186:16 236:18 331:19 197:19 199:10 carefully 373:4 161:21 186:16 250:12 306:1 236:13 33:19 197:19 199:10 carterii 368:20 306:11 321:15 349:22 353:10 202:22 229:9 368:24 369:1 catalog 111:3 127:2 246:11 362:6 314:18,23 19:12,15 127:2 304:2,2 308:18 2ertifficate 372:2 certifficate 372:2 checked 176:7 19:12,15 148:16 149:24 150:11 163:11 299:5 372:16 366:14 369:3 certiffied 1:17 366:14 369:3 certiffed 1:17 366:14 369:3 certiffed 1:17 366:14 369:3 certiffed 1:17 369:16 (924) certiffed 1:17 372:12,13 19:9 31:6,924 certiffed 1:17 19:11:12 112:18 299:12 369:11 certifying 111:12 112:18 110:11,16,20 110:11,16,20 110:11,16,20 110:11,16,20 1					· ·
339:16 340:7 cases 1:8 10:9 44:24 79:20,24 24:24 79:20,24 161:21 186:16 278:13 306:18 331:19 197:19 199:10 202:22 229:9 carrie 34:3,3 250:12 306:1 278:13 349:22 353:10 202:22 229:9 222:22 229:9 carterii 368:20 306:11 321:15 catalog 111:3 182:24 185:6 246:11 362:6 314:18,23 368:24 369:1 127:2 2308:18 246:11 362:6 314:18,23 checked 176:7 19:12,15 127:2 2308:18 297:20 298:7 2ertificate 372:2 checked 176:7 19:12,15 148:16 149:24 150:11 163:11 299:5 372:16 certificate 372:2 chem 356:5 19:12,15 125:7 244:10 297:7 298:7 372:12,13 19:9 31:6,9,24 17:224 350:7 225:7 244:10 297:7 298:7 375:5 110:1,16,20 368:15,16,21 297:7 297:7 297:19 372:18 116:11 124:10 369:7,14,17,21 203:18,19 209:14 238:21 209:14 238:21 209:14 238:21 218:2 225:18 116:11 124:10<					
career 342:2 44:24 79:20,24 caused 144:1 306:18 331:19 197:19 199:10 carefully 373:4 250:12 306:1 278:13 causes 147:15 246:11 362:6 202:22 229:9 368:24 369:1 306:11 321:15 182:24 185:6 246:11 362:6 314:18,23 cas 4:17 19:1,2 127:2 categories 145:4 199:14 166:4 297:20 298:7 certificate 372:2 checked 176:7 366:14 369:3 chem 356:5 chemical 18:24 171:24 172:1 150:11 163:11 299:5 297:20 298:7 372:12,13 chem 356:5 chemical 18:24 172:24 350:7 297:7 category 198:23 369:11 certify 372:5 95:16 109:16 368:15,16,21 297:7 369:11 cedarwood 375:5 110:1,16,20 368:22,24 203:18,19 209:14 238:21 230:24 265:11 372:18 116:11 124:10 28:2 28:20 30:3 240:13 241:6 230:24 265:11 230:24 265:11 154:17 137:18 22:133:17 32:13 33:8 291:3 292:12 308:21 32:1 308:21 32:1 154:17 137:8 147:13	· ·				
carefully 373:4 161:21 186:16 278:13 349:22 353:10 202:22 229:9 271:24 288:1 carterii 368:20 306:11 321:15 182:24 185:6 182:24 185:6 246:11 362:6 314:18,23 checked 176:7 26cettificate 372:2 272:12 366:14 369:3 372:16 26cettificate 372:2 272:12 366:14 369:3 372:16 28:11 272:12 368:13 36:14 369:3 372:16 28:11 28:11 299:5 375:5 216:10:11 19:9 31:6,9,24 26cettify 372:5 295:16 109:16 375:5 110:1,16,20 375:5 110:1,16,20 375:1 26cettifying 375:18 16:11 124:10 26cettifying 375:18 26cettifying 375:18 26cettifyi			· ·		
carrie 34:3,3 250:12 306:1 causes 147:15 182:24 185:6 246:11 362:6 271:24 288:1 368:24 369:1 catalog 111:3 127:2 304:2,2 308:18 246:11 362:6 certificate 372:2 checked 176:7 19:12,15 categories 145:4 148:16 149:24 297:20 298:7 certification 366:14 369:3 17:224 350:7 25:7 244:10 299:5 372:16 chem 356:5 17:224 350:7 225:7 244:10 299:5 375:15 19:31:2,13 368:15,16,21 297:7 category 198:23 369:11 certify 372:5 95:16 109:16 369:7,14,17,21 203:18,19 cedrus 369:10 375:18 110:1,16,20 30:8,21 32:4 240:13 241:6 230:24 265:11 277:13 285:22 153:17,23 136:10,13,16 32:13 33:8 291:3 292:12 308:21 321:14 154:17 137:8 147:13 45:3 46:8 47:9 292:19,24 328:8 cells 114:18 154:17 137:8 147:13 47:10 73:9 325:5,8,16,17 326:16,24 115:16 116:4 16:16 17:11 142:6 294:14 160:15 165:		· · · · · · · · · · · · · · · · · · ·			
carterii 368:20 306:11 321:15 182:24 185:6 246:11 362:6 314:18,23 368:24 369:1 catalog 111:3 194:23 216:21 304:2,2 308:18 certificate 372:2 checked 176:7 19:12,15 109:14 166:4 148:16 149:24 297:20 298:7 372:16 certified 1:17 366:14 369:3 172:24 350:7 225:7 244:10 299:5 372:12,13 19:9 31:6,9,24 368:15,16,21 297:7 cedarwood 375:5 110:1,16,20 368:22,24 203:18,19 cedrus 369:10 certifying 111:12 112:18 369:7,14,17,21 203:18,19 cell 218:2 cervix 208:8 132:22 133:7 case 28:20 30:3 240:13 241:6 230:24 265:11 cervix 208:8 132:22 133:7 32:13 33:8 291:3 292:12 308:21 32:14 154:17 137:8 147:13 45:3 46:8 47:9 292:19,24 328:8 cells 114:18 154:17 137:8 147:13 47:11 50:16,19 325:5,8,16,17 115:16 116:4 chance 227:15 155:1 156:12 74:16 75:15 326:16,24 116:16 117:11 14					
368:24 369:1 catalog 111:3 194:23 216:21 certificate 372:2 checked 176:7 19:12,15 127:2 304:2,2 308:18 certification 366:14 369:3 19:12,15 148:16 149:24 297:20 298:7 certified 1:17 366:14 369:3 171:24 172:1 150:11 163:11 299:5 372:12,13 19:9 31:6,9,24 368:15,16,21 297:7 category 198:23 369:11 certify 372:5 95:16 109:16 368:22,24 297:17 category 198:23 369:11 certifying 111:12 112:18 369:7,14,17,21 203:18,19 cell 218:2 cervix 208:8 116:11 124:10 case 28:20 30:3 240:13 241:6 230:24 265:11 cervix 208:8 132:22 133:7 244:8,17 290:3 291:3 292:12 308:21 321:14 154:17 136:10,13,16 32:13 33:8 291:3 292:12 328:8 cells 114:18 154:17 137:8 147:13 45:3 46:8 47:9 293:9 305:9 cells 114:18 154:17 155:15 6:12 74:16 75:15 326:16,24 116:16 117:11 142:6 294:14 160:15 16					
cas 4:17 19:1,2 127:2 304:2,2 308:18 causing 297:9 certification 37:16 chem 356:5 366:14 369:3 chem 356:5 19:12,15 148:16 149:24 122:1 297:20 298:7 299:5 372:16 certified 1:17 37:21 chem 356:5 chem 356:5 171:24 172:1 150:11 163:11 299:5 372:12,13 19:9 31:6,9,24 certify 372:5 19:16 109:16 37:15 109:16 368:15,16,21 37:15 37:12,13 19:9 31:6,9,24 certify 372:5 95:16 109:16 368:22,24 369:7,14,17,21 369:24 case 28:20 30:3 369:24 209:14 238:21 209:14 238:21 209:14 238:21 240:13 241:6 230:24 265:11 230:24 265:11 230:24 265:11 230:24 265:11 230:24 265:11 230:24 265:11 230:24 265:11 245:17 230:24 265:11 245:17 230:24 265:11 245:17 230:24 265:11 245:17 230:24 265:11 245:17 230:24 265:11 245:17 230:24 265:11 245:17 230:24 265:11 245:17					· ·
19:12,15 categories 145:4 causing 297:9 372:16 chem 356:5 109:14 166:4 148:16 149:24 297:20 298:7 certified 1:17 19:9 31:6,9,24 171:24 172:1 150:11 163:11 299:5 372:12,13 19:9 31:6,9,24 368:15,16,21 297:7 category 198:23 369:11 certifying 111:12 112:18 369:24 209:14 238:21 cell 218:2 cervix 208:8 132:22 133:7 case 28:20 30:3 240:13 241:6 230:24 265:11 cfr 149:5 153:13 133:18,22 30:8,21 32:4 244:8,17 290:3 277:13 285:22 153:17,23 136:10,13,16 32:13 33:8 291:3 292:12 308:21 321:14 154:17 137:8 147:13 45:3 46:8 47:9 292:19,24 328:8 cells 114:18 364:22,24 155:1 156:12 71:10 73:9 325:5,8,16,17 115:16 116:4 change 19:23 159:2,8,22 74:16 75:15 326:16,24 116:16 117:11 142:6 294:14 160:15 165:16 92:5 109:2,6 329:4 330:9,11 117:19,23 352:22 353:8 167:2 169:1		0			
109:14 166:4 148:16 149:24 297:20 298:7 certified 1:17 chemical 18:24 171:24 172:1 150:11 163:11 299:5 372:12,13 19:9 31:6,9,24 172:24 350:7 225:7 244:10 cavity 219:24 certify 372:5 95:16 109:16 368:15,16,21 297:7 cdarwood 375:5 110:1,16,20 368:22,24 category 198:23 369:11 certifying 111:12 112:18 369:24 209:14 238:21 cell 218:2 cervix 208:8 132:22 133:7 case 28:20 30:3 240:13 241:6 277:13 285:22 153:17,23 136:10,13,16 32:13 33:8 291:3 292:12 308:21 321:14 154:17 137:8 147:13 45:3 46:8 47:9 292:19,24 328:8 cells 114:18 154:17 151:9 153:23 47:11 50:16,19 293:9 305:9 115:16 116:4 148:16 117:11 142:6 294:14 160:15 165:16 92:5 109:2,6 329:4 330:9,11 117:19,23 352:22 353:8 167:2 169:1 110:24 123:6 30:16 118:5,13,15,19 370:11 374:4 172:7 173:9	· ·		· · · · · · · · · · · · · · · · · · ·		
171:24 172:1 150:11 163:11 299:5 372:12,13 19:9 31:6,9,24 172:24 350:7 225:7 244:10 cavity 219:24 certify 372:5 95:16 109:16 368:15,16,21 297:7 cedarwood 375:5 110:1,16,20 368:22,24 category 198:23 369:11 certifying 111:12 112:18 369:24 209:14 238:21 cell 218:2 cervix 208:8 132:22 133:7 case 28:20 30:3 240:13 241:6 230:24 265:11 cfr 149:5 153:13 133:18,22 30:8,21 32:4 244:8,17 290:3 277:13 285:22 153:17,23 136:10,13,16 32:13 33:8 291:3 292:12 308:21 321:14 154:17 137:8 147:13 45:3 46:8 47:9 292:19,24 328:8 cells 114:18 chance 227:15 151:9 153:23 47:11 50:16,19 293:9 305:9 115:16 116:4 16:16 117:11 142:6 294:14 160:15 165:16 92:5 109:2,6 329:4 330:9,11 117:19,23 352:22 353:8 167:2 169:1 110:24 123:6 30:16 118:5,13,15,19 19:1,4 183:23 370:11 374:4 172:		O			
172:24 350:7 225:7 244:10 cavity 219:24 certify 372:5 95:16 109:16 368:15,16,21 297:7 category 198:23 369:11 certifying 111:12 112:18 369:24 203:18,19 cell 218:2 cervix 208:8 116:11 124:10 case 28:20 30:3 240:13 241:6 230:24 265:11 cfr 149:5 153:13 133:18,22 30:8,21 32:4 244:8,17 290:3 277:13 285:22 153:17,23 136:10,13,16 32:13 33:8 291:3 292:12 308:21 321:14 154:17 137:8 147:13 45:3 46:8 47:9 292:19,24 328:8 cells 114:18 364:22,24 155:1 156:12 47:11 50:16,19 293:9 305:9 115:16 116:4 142:6 294:14 159:2,8,22 74:16 75:15 326:16,24 116:16 117:11 142:6 294:14 160:15 165:16 92:5 109:2,6 329:4 330:9,11 117:19,23 370:11 374:4 172:7 173:9 123:11,17 causation 113:7 119:1,4 183:23 370:11 374:4 172:7 173:9 124:4,22 125:2 114:5 199:18 218:1 220:10 143:11,19,23 182:23 185:24					
368:15,16,21 297:7 cedarwood 375:5 110:1,16,20 368:22,24 369:7,14,17,21 203:18,19 cedrus 369:10 372:18 116:11 124:10 369:24 209:14 238:21 cell 218:2 cervix 208:8 132:22 133:7 case 28:20 30:3 240:13 241:6 230:24 265:11 cfr 149:5 153:13 133:18,22 30:8,21 32:4 244:8,17 290:3 277:13 285:22 153:17,23 136:10,13,16 32:13 33:8 291:3 292:12 308:21 321:14 154:17 137:8 147:13 45:3 46:8 47:9 292:19,24 328:8 cells 114:18 364:22,24 155:1 156:12 71:10 73:9 325:5,8,16,17 115:16 116:4 change 19:23 159:2,8,22 74:16 75:15 326:16,24 116:16 117:11 142:6 294:14 160:15 165:16 92:5 109:2,6 329:4 330:9,11 117:19,23 370:11 374:4 172:7 173:9 123:11,17 causation 113:7 119:1,4 183:23 370:11 374:4 172:7 173:9 124:4,22 125:2 114:5 199:18 218:1 220:10 143:11,19,23 182:23 185:24 <				,	
368:22,24 category 198:23 369:11 certifying 111:12 112:18 369:7,14,17,21 203:18,19 209:14 238:21 372:18 116:11 124:10 case 28:20 30:3 240:13 241:6 230:24 265:11 cervix 208:8 132:22 133:7 30:8,21 32:4 244:8,17 290:3 277:13 285:22 153:17,23 136:10,13,16 32:13 33:8 291:3 292:12 308:21 321:14 154:17 137:8 147:13 45:3 46:8 47:9 292:19,24 328:8 cells 114:18 364:22,24 155:1 156:12 71:10 73:9 325:5,8,16,17 15:16 116:4 16:16 117:11 142:6 294:14 160:15 165:16 92:5 109:2,6 329:4 330:9,11 117:19,23 352:22 353:8 167:2 169:1 110:24 123:6 330:16 118:5,13,15,19 370:11 374:4 172:7 173:9 123:11,17 causation 113:7 114:5 199:18 218:1 220:10 143:11,19,23 182:23 185:24 126:3 133:6 cause 1:15 220:22 221:24 352:23 187:5 190:4,6			· ·		
369:7,14,17,21 203:18,19 cedrus 369:10 372:18 116:11 124:10 369:24 209:14 238:21 cell 218:2 cervix 208:8 132:22 133:7 case 28:20 30:3 240:13 241:6 230:24 265:11 cfr 149:5 153:13 133:18,22 30:8,21 32:4 244:8,17 290:3 277:13 285:22 153:17,23 136:10,13,16 32:13 33:8 291:3 292:12 308:21 321:14 154:17 137:8 147:13 45:3 46:8 47:9 292:19,24 328:8 cells 114:18 154:17 137:8 147:13 47:11 50:16,19 293:9 305:9 cells 114:18 364:22,24 155:1 156:12 74:16 75:15 326:16,24 115:16 116:4 change 19:23 159:2,8,22 110:24 123:6 329:4 330:9,11 117:19,23 352:22 353:8 167:2 169:1 110:24 123:6 330:16 118:5,13,15,19 370:11 374:4 172:7 173:9 123:11,17 causation 113:7 119:1,4 183:23 changed 143:1 174:24 175:3 126:3 133:6 cause 1:15 220:22 221:24 352:23 187:5 190:4,6					
369:24 209:14 238:21 cell 218:2 cervix 208:8 132:22 133:7 case 28:20 30:3 240:13 241:6 230:24 265:11 cfr 149:5 153:13 133:18,22 30:8,21 32:4 244:8,17 290:3 277:13 285:22 153:17,23 136:10,13,16 32:13 33:8 291:3 292:12 308:21 321:14 154:17 137:8 147:13 45:3 46:8 47:9 292:19,24 328:8 chance 227:15 151:9 153:23 47:11 50:16,19 293:9 305:9 325:5,8,16,17 115:16 116:4 change 19:23 155:1 156:12 74:16 75:15 326:16,24 116:16 117:11 142:6 294:14 160:15 165:16 92:5 109:2,6 329:4 330:9,11 117:19,23 352:22 353:8 167:2 169:1 110:24 123:6 330:16 118:5,13,15,19 370:11 374:4 172:7 173:9 123:11,17 causation 113:7 119:1,4 183:23 changed 143:1 174:24 175:3 124:4,22 125:2 114:5 199:18 218:1 220:10 143:11,19,23 182:23 185:24 126:3 133:6 220:22 221:24 352:23 187:5 190:4,6	· ·				
case 28:20 30:3 240:13 241:6 230:24 265:11 cfr 149:5 153:13 133:18,22 30:8,21 32:4 244:8,17 290:3 277:13 285:22 153:17,23 136:10,13,16 32:13 33:8 291:3 292:12 308:21 321:14 154:17 137:8 147:13 45:3 46:8 47:9 292:19,24 328:8 chance 227:15 151:9 153:23 47:11 50:16,19 293:9 305:9 cells 114:18 364:22,24 155:1 156:12 71:10 73:9 325:5,8,16,17 115:16 116:4 change 19:23 159:2,8,22 110:24 123:6 329:4 330:9,11 117:19,23 352:22 353:8 167:2 169:1 110:24 123:6 30:16 118:5,13,15,19 370:11 374:4 172:7 173:9 124:4,22 125:2 114:5 199:18 218:1 220:10 143:11,19,23 182:23 185:24 126:3 133:6 cause 1:15 220:22 221:24 352:23 187:5 190:4,6	369:7,14,17,21	· ·			
30:8,21 32:4 244:8,17 290:3 277:13 285:22 153:17,23 136:10,13,16 32:13 33:8 291:3 292:12 308:21 321:14 154:17 137:8 147:13 45:3 46:8 47:9 292:19,24 328:8 chance 227:15 151:9 153:23 47:11 50:16,19 293:9 305:9 cells 114:18 364:22,24 155:1 156:12 71:10 73:9 325:5,8,16,17 115:16 116:4 change 19:23 159:2,8,22 74:16 75:15 326:16,24 116:16 117:11 142:6 294:14 160:15 165:16 92:5 109:2,6 329:4 330:9,11 117:19,23 352:22 353:8 167:2 169:1 110:24 123:6 330:16 118:5,13,15,19 370:11 374:4 172:7 173:9 123:11,17 causation 113:7 119:1,4 183:23 changed 143:1 174:24 175:3 124:4,22 125:2 114:5 199:18 218:1 220:10 143:11,19,23 182:23 185:24 126:3 133:6 cause 1:15 220:22 221:24 352:23 187:5 190:4,6					
32:13 33:8 291:3 292:12 308:21 321:14 154:17 137:8 147:13 45:3 46:8 47:9 292:19,24 328:8 chance 227:15 151:9 153:23 47:11 50:16,19 293:9 305:9 325:5,8,16,17 325:5,8,16,17 325:5,8,16,17 115:16 116:4 142:6 294:14 159:2,8,22 74:16 75:15 326:16,24 116:16 117:11 142:6 294:14 160:15 165:16 92:5 109:2,6 329:4 330:9,11 117:19,23 352:22 353:8 167:2 169:1 110:24 123:6 330:16 118:5,13,15,19 370:11 374:4 172:7 173:9 123:11,17 causation 113:7 119:1,4 183:23 changed 143:1 174:24 175:3 124:4,22 125:2 114:5 199:18 218:1 220:10 143:11,19,23 182:23 185:24 126:3 133:6 cause 1:15 220:22 221:24 352:23 187:5 190:4,6					
45:3 46:8 47:9 292:19,24 328:8 cells 114:18 151:9 153:23 47:11 50:16,19 293:9 305:9 328:8 364:22,24 155:1 156:12 71:10 73:9 325:5,8,16,17 115:16 116:4 change 19:23 159:2,8,22 74:16 75:15 326:16,24 116:16 117:11 142:6 294:14 160:15 165:16 92:5 109:2,6 329:4 330:9,11 117:19,23 352:22 353:8 167:2 169:1 110:24 123:6 330:16 118:5,13,15,19 370:11 374:4 172:7 173:9 123:11,17 causation 113:7 119:1,4 183:23 changed 143:1 174:24 175:3 124:4,22 125:2 114:5 199:18 218:1 220:10 143:11,19,23 182:23 185:24 126:3 133:6 cause 1:15 220:22 221:24 352:23 187:5 190:4,6	· ·	· ·		· · · · · · · · · · · · · · · · · · ·	
47:11 50:16,19 293:9 305:9 cells 114:18 364:22,24 155:1 156:12 71:10 73:9 325:5,8,16,17 115:16 116:4 thange 19:23 159:2,8,22 74:16 75:15 326:16,24 116:16 117:11 142:6 294:14 160:15 165:16 92:5 109:2,6 329:4 330:9,11 117:19,23 352:22 353:8 167:2 169:1 110:24 123:6 330:16 118:5,13,15,19 370:11 374:4 172:7 173:9 123:11,17 causation 113:7 119:1,4 183:23 changed 143:1 174:24 175:3 124:4,22 125:2 114:5 199:18 218:1 220:10 143:11,19,23 182:23 185:24 126:3 133:6 cause 1:15 220:22 221:24 352:23 187:5 190:4,6					
71:10 73:9 325:5,8,16,17 115:16 116:4 change 19:23 159:2,8,22 74:16 75:15 326:16,24 116:16 117:11 142:6 294:14 160:15 165:16 92:5 109:2,6 329:4 330:9,11 117:19,23 352:22 353:8 167:2 169:1 110:24 123:6 330:16 118:5,13,15,19 370:11 374:4 172:7 173:9 123:11,17 causation 113:7 119:1,4 183:23 changed 143:1 174:24 175:3 124:4,22 125:2 114:5 199:18 218:1 220:10 143:11,19,23 182:23 185:24 126:3 133:6 cause 1:15 220:22 221:24 352:23 187:5 190:4,6		· ·			
74:16 75:15 326:16,24 116:16 117:11 142:6 294:14 160:15 165:16 92:5 109:2,6 329:4 330:9,11 117:19,23 352:22 353:8 167:2 169:1 110:24 123:6 330:16 118:5,13,15,19 370:11 374:4 172:7 173:9 123:11,17 causation 113:7 119:1,4 183:23 changed 143:1 174:24 175:3 124:4,22 125:2 114:5 199:18 218:1 220:10 143:11,19,23 182:23 185:24 126:3 133:6 cause 1:15 220:22 221:24 352:23 187:5 190:4,6	· ·				
92:5 109:2,6 329:4 330:9,11 117:19,23 352:22 353:8 167:2 169:1 110:24 123:6 330:16 118:5,13,15,19 370:11 374:4 172:7 173:9 123:11,17 causation 113:7 119:1,4 183:23 changed 143:1 174:24 175:3 124:4,22 125:2 114:5 199:18 218:1 220:10 143:11,19,23 182:23 185:24 126:3 133:6 cause 1:15 220:22 221:24 352:23 187:5 190:4,6					1 1
110:24 123:6 330:16 118:5,13,15,19 370:11 374:4 172:7 173:9 123:11,17 causation 113:7 119:1,4 183:23 changed 143:1 174:24 175:3 124:4,22 125:2 114:5 199:18 218:1 220:10 143:11,19,23 182:23 185:24 126:3 133:6 cause 1:15 220:22 221:24 352:23 187:5 190:4,6		,			
123:11,17 causation 113:7 119:1,4 183:23 changed 143:1 174:24 175:3 124:4,22 125:2 114:5 199:18 218:1 220:10 143:11,19,23 182:23 185:24 126:3 133:6 cause 1:15 220:22 221:24 352:23 187:5 190:4,6	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	,		
124:4,22 125:2 114:5 199:18 218:1 220:10 143:11,19,23 182:23 185:24 126:3 133:6 cause 1:15 220:22 221:24 352:23 187:5 190:4,6					
126:3 133:6 cause 1:15 220:22 221:24 352:23 187:5 190:4,6	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·		
· · · · · · · · · · · · · · · · · · ·	124:4,22 125:2	114:5 199:18	218:1 220:10	143:11,19,23	182:23 185:24
134:19 153:21 105:20 106:4 230:10,17,20 changes 7:13 190:7,23	126:3 133:6	cause 1:15	220:22 221:24		187:5 190:4,6
	134:19 153:21	105:20 106:4	230:10,17,20	changes 7:13	190:7,23
			<u> </u>	l	l

				Page 383
ı			İ	Ì
191:17 193:3,5	115:11 116:11	309:14,15	choice 200:11	cirs 155:5
194:21 206:19	124:2,5,16	313:7,19	cholangiofibr	citation 91:21
206:19 210:15	126:13 127:3,6	314:16 315:17	265:24	104:15 150:22
211:12,14	127:14 129:11	319:21 320:11	choosing 235:5	158:11 289:8
215:18 218:14	133:14 134:6	321:9,19	255:15	citations 28:10
233:6,16,17	134:18,23	322:12 323:16	christmas 20:4	cite 28:1 88:14
234:24 235:1	135:4,12,19,23	325:21 326:4	chromatic	90:19 91:20
240:4 241:21	136:9,19 137:3	326:17 328:5	117:22	92:3 103:15
243:23 244:2	138:3,11 139:3	329:2 330:21	chromatid	107:2,6 150:13
244:14 257:15	139:13 140:6,7	331:17 334:6	115:15 116:20	150:19 181:7
259:8 266:5	140:9,11 141:3	334:14,20	117:3,18 118:4	182:7 237:22
276:15 287:22	141:23 142:6	335:18 341:17	118:11,14	275:13 363:7
289:23 291:11	142:17,19,24	341:17,24	184:1 230:5,19	cited 27:10 28:4
292:8 296:4,20	143:11,18,23	342:8,10,11,14	288:6	28:20 29:21
299:16 302:10	144:2,13,19,23	342:18,19,21	chromosomal	78:13 106:20
302:21 303:10	145:17,21,24	342:22 343:12	118:4,12,24	124:15 179:3
304:13 305:11	147:3,8 148:7	344:5 345:6,7	288:6	179:23 275:15
305:12 306:6	151:8 153:4	346:17,23	chronic 215:19	278:21 284:14
323:21,23	154:7,11 156:7	347:4 348:18	216:3,14 310:8	305:23 325:15
327:15 329:6	156:14,16	349:15,20,24	357:4	cites 88:15
335:4 343:18	157:15 160:21	350:18 351:9	cinnamal	citing 290:8,11
348:21 350:4	162:10 164:4	351:12,18	330:15,19	citral 117:13
354:14,15	187:10 192:10	352:2 356:1,4	ciprodex 45:19	citrus 185:15,17
355:17 356:7	192:17,23	362:20 363:8	46:12	186:7,10
356:13,16	193:14 195:7	368:14	cir 109:20 149:5	218:15,20
361:9 368:10	195:11 196:9	chemist 52:2	149:11 153:3	city 347:13
368:18 369:19	197:9 198:19	53:16 151:13	155:2,21 156:2	civil 1:19
chemicals 19:10	199:5,19,20,23	362:10	156:6,12	claim 162:23
19:13,17 22:16	199:23 200:10	chemistry 30:9	180:21 181:15	169:5 180:15
31:10 34:9	200:12 201:7	30:15 45:24	186:13,20	180:24 236:3
35:18,21 38:14	202:11 203:7	51:1,5 341:21	187:4,18 188:3	236:15 243:24
48:15,18 50:10	212:6,6,10	341:22	188:4,9,11,14	244:3 257:24
50:13 52:10,10	214:24 215:5	chempub 111:2	191:6,8 288:23	clarified 172:6
52:11 63:10,22	215:10 216:9,9	chinese 114:18	289:4,10	clarify 267:18
64:18 65:7	217:14,14	115:16 116:3	301:19 327:6	295:14 296:1
67:19 73:16	220:5,7 232:21	116:15 117:11	340:11,14	319:16 341:12
75:18,22 81:11	236:4,16	117:18,23	344:3 363:8,10	class 56:22
81:19 82:19	237:14,15	118:5,13,15,19	363:20,21	classes 56:4,20
92:20 105:7,13	238:11,17	119:1,4 183:23	circuit 347:13	56:22
105:20 106:4	243:12,15,19	218:1 220:10	circulated 78:24	classifiable
106:11,17,21	268:20 269:3	220:22 221:24	79:1	198:4,21
107:11,24	296:12 297:5	230:16,20	circumstance	238:18 240:5,9
108:8,14 109:8	297:19 298:4,5	285:17 288:7	244:24 267:16	259:9,16
109:9 110:18	298:21 299:3	chlorophyll	291:17	260:11 266:18
111:1,5 112:5	300:11,24	150:16 369:13	circumstances	269:5 274:22
112:12,16,20	303:17 307:23	369:15	211:16,17	classification
114:10,17,24	308:7,24	cho 286:4	306:22 338:14	7:7 202:10
			l	l

				Page 384
202 7 1 4 220 7	1 1 075 2	1012	(0.12	107.0.144.14
203:7,14 238:7	clearly 275:3	column 19:1,2	68:13	105:9 144:14
240:3 242:5	327:21 343:2	148:4,5,16	communicatio	145:20 162:21
243:8 259:8,14	369:8	149:1 150:12	68:9 71:16,19	343:9
260:7,10 267:5	click 150:21	177:21 180:10	communis	component
268:1 290:20	client 60:4,16	180:11 303:24	288:22 289:2	69:10
291:10 292:23	326:10 330:24	350:3,5,6,7	289:16	components
293:17 298:3	clinical 43:8	columns 350:3	community	32:5,14 208:22
304:11 358:6	close 219:21	com 1:23 2:5,6	86:12	214:18 323:3
classifications	329:22	2:10,16,20 3:5	companies 46:9	325:7 348:21
239:24 260:18	closed 43:6	3:9,14,20	46:10 51:14	composition
261:17 297:4	closely 345:9	combination	54:23 64:24	31:22 112:6
304:1,12	closer 270:8	135:15 289:21	65:2 169:14	124:11 141:18
classified 110:11	coadministered	come 16:9 57:16	186:23 210:21	142:7 143:10
131:24 198:23	212:13	59:14 150:1	231:8,15,20	200:20 210:1
221:23 243:20	coast 265:19	261:16 268:19	299:7 335:15	328:23 330:1
243:24 244:3	coating 65:22,22	comes 29:8	348:14 369:4	346:24
244:13 259:2	356:12	218:16	company 43:10	compositional
259:23 266:21	coatings 69:9	comfortable	43:12,18 46:14	142:12
276:14 290:2	cocarcinogen	74:8 84:23	48:6 52:24	compositions
291:4 292:18	262:7 361:7,8	comment	53:2 54:13,16	55:2 64:9,14
293:9 296:13	361:9	353:21	57:3,5 59:24	64:22 233:4
297:19 298:5	cocarcinogenic	comments 19:3	60:2,8 64:20	compound
301:1 315:17	212:11	354:2	66:14 205:11	132:3 291:21
321:20	code 149:11	commerce 2:4	205:19 206:2,6	compounds
classifies 296:20	150:23 151:3,9	commercial	299:12 304:17	281:15,24
300:11	151:17 152:7	55:3 113:3	334:1	291:18 292:4
classify 291:18	154:2,8,12	360:3	compares 19:15	301:14 362:16
322:12	codex 153:4	commercially	comparison	computer 12:11
classifying	187:6	65:24 205:3	100:13 368:9	12:12,15,23
110:9 292:12	cofounded 43:3	commission	369:24	15:10 17:12
303:17	cohort 250:11	290:14 375:20	compatible	24:8 166:9
clay 52:4,5 54:5	250:14,15	commit 287:24	220:19,21	224:18 240:1
54:19,21,22	collate 31:18	committed	competent 58:8	270:2 276:11
cleanser 218:22	111:12 112:23	139:17	58:21 59:10,13	concentration
clear 10:21	collating 92:23	committee 2:11	60:23	136:18 137:2
11:21 14:16	collation 90:23	60:13,16	complete 28:9	138:2 143:18
36:12 78:10	colleagues 38:13	181:23 237:1	29:24 31:3	143:22 168:17
93:19 95:14,17	collect 112:23	290:1,12 292:6	122:3 140:1	203:13 220:11
184:18,24	194:1	292:17	336:24	220:13 221:4
185:1 186:22	collected 127:15	common 291:21	completed 337:9	225:14 230:18
199:2 220:20	290:10 298:20	314:8	365:22	232:23 252:21
235:9 237:13	colorant 150:17	commonly	completely	286:5,11 288:8
239:11 243:18	colorants 51:22	177:23 179:5	146:10 354:10	306:5,13
249:8 261:15	51:22	240:13	completing 53:9	312:19 327:1
282:9 284:19	colors 146:16	communicated	completion	330:12 347:3
295:3,5 344:2	columbia	71:12	372:8	349:20 354:14
367:10	205:20	communication	compliance	concentrations

				Page 385
			l	I
272:19 284:21	confused 147:22	313:10 318:9	69:6 248:20	coowner 57:3
309:3 350:18	confusing	345:2	349:23,24	copied 90:4,8
352:1	145:12 146:10	considering	contaminant	96:2 100:6
concept 125:13	147:17 159:15	40:10,13 337:1	131:5,13	copies 25:13
concern 144:20	confusion 14:15	considers 78:7	contaminated	248:18
144:24 145:3,7	congress 3:3	197:22,24	33:10	copper 150:16
145:16 146:1,7	conjunction	237:4 261:15	contd 3:1 5:2	369:13,14
146:20 147:4,9	164:1	consistent 31:19	6:2 7:2	copy 24:11 26:6
148:5,8,18,24	connected 54:22	99:15 122:23	content 137:15	41:5,7 90:13
150:1,3,12	connection	128:2 292:2	355:7	91:5 93:8
151:3 153:24	21:13 63:16,18	297:14	context 129:7	158:5 248:9
154:18 155:1	68:23 76:8	consists 18:21	continue 189:16	251:6 368:5
156:13,21	155:12 213:19	constituents	249:12	copying 90:21
162:11 174:24	consider 30:12	335:4	continues 97:24	92:24
185:20 186:21	30:14 31:21,22	constitute 148:7	98:2	corporation
188:5,18 190:5	33:11 38:2	consultant	contract 10:10	43:6
191:8 192:18	39:7 40:8	43:24 54:15	47:10,20	correct 10:14
192:24 193:3	56:19 58:5,16	55:1	contractor	12:1,2 17:12
193:16 194:9	58:18 59:8,12	consultants 64:8	210:23	21:11 28:3,23
concerned	107:19 108:5	64:16	contrary 306:21	41:12 50:5,6
138:16	138:7 153:9	consulting 42:4	contribute	50:10 51:2
concerns 67:1	199:11 213:23	42:9,11,12,17	81:11 105:14	53:19 55:17,18
193:6 325:11	231:16 255:16	42:22 44:11,19	192:11 200:12	55:20,21 56:8
325:15	269:9 302:10	60:4 362:15	210:5 212:7,15	56:14 60:18
conclude 274:8	302:20 303:6	consumed 129:8	212:23 246:17	61:2,11,20
concluded 245:6	363:21	consumer 5:14	300:13 307:14	62:11,18,19,21
245:8 278:12	consideration	7:8 32:7,16,23	307:22 309:23	63:2 65:8,11
284:19 288:23	105:23 128:5	33:2 95:19	320:16 322:18	67:5 68:2,3,10
371:13	144:5,9 231:11	96:23,24 97:7	327:17 328:12	70:21 75:4
concludes	247:22 352:12	97:8 99:19	332:2,15	76:2 81:16
371:10	355:19 357:17	144:13 161:20	343:13	83:13,14 86:22
conclusion	considerations	335:15 347:15	contributes	88:7,16,21
132:7 170:16	231:20 357:16	348:14,15	229:20 233:17	89:1 90:16
172:3 222:16	considered 5:8	contact 37:14	235:2	92:8 93:11
274:7,24 275:2	29:11,15,19,21	337:15	contributing	97:11,17 98:6
275:4	29:24 30:2	contacted 36:21	364:9	101:21 102:4
conclusions	36:5,16 74:24	37:1,2 63:7	contribution	103:11 105:10
93:24 126:20	76:15,21 77:1	65:1 337:19	54:18	106:5,7,13,14
131:4	77:4,13,21,23	contain 30:22	control 99:21	108:9,11,15,17
conditions 119:2	110:10 118:23	300:7	142:6 210:19	108:18 111:8
conducted 23:11	126:2 128:6	contained 19:22	280:3 372:18	112:13 115:1
287:18,20	152:19 193:10	24:1 77:21	controls 279:21	115:21 117:6
conference	208:14 247:17	233:22 336:19	280:1	123:17 124:7
338:18	248:16 273:17	344:24 370:6	conversations	124:22,23
confident 71:3	274:3,11,17	containing	37:16	125:3,4,18,19
confidential	286:1 289:10	205:4	cookies 229:5	126:3 127:9
109:4	292:11 293:1,3	contains 41:19	cooking 229:6	128:10,11,14
107.7	2,2.11 2,3.1,3	CUIICAIIIS T1.17	Cooking 229.0	120.10,11,17

				Page 386
		_	l	
129:18 131:21	262:18 263:7	corrections	117:22 198:3	347:13 366:5
132:10 133:8	263:17 264:15	373:5,7 375:9	198:20 236:11	373:20
133:23 134:4	265:14,15	correctly 162:1	236:20,23	cover 247:15
134:10,20	268:2 269:6	178:3,17	237:18 262:23	covers 154:9
135:20 143:13	271:8,18 272:5	179:10 180:17	262:24 263:5	cpsa 97:24
144:17 145:18	274:23 276:24	181:1 240:18	263:11,15	cream 205:3
154:21,22	277:9,19	254:13,24	264:16,23	creams 325:18
156:10 158:22	278:23 279:1,2	255:4,22 261:6	266:17,21	325:19
158:23 159:4,9	282:3,7,15	293:6	267:4,24 268:6	create 54:20
159:23 160:15	283:14 286:13	correspond	268:12 269:1	112:5 151:15
161:3 162:7	286:23 288:17	369:14,18	269:12	153:8 175:11
164:5 165:1,8	288:18,20	corrosive	counsel 3:21	created 31:10
165:18 168:4	289:17 291:13	284:21	10:17 13:1	92:22 133:15
168:19 169:9	291:15 293:10	cosmetic 5:20	17:23 18:16	creating 31:21
170:21 171:21	293:19 294:4	50:19 51:16	21:14 23:16	61:23 152:19
172:9,20	295:18 296:5,6	53:18,22 55:14	28:19 38:23	creation 55:2
174:20 175:7	297:21 298:21	61:1,5,10,20	39:4,23 40:9	credit 89:21
176:13 177:12	299:5,22 300:2	61:23 62:5	40:18,21 49:23	cresol 237:6
178:22 183:6	301:24 302:12	63:4 118:21	71:23 74:9,19	cresols 233:23
185:2 186:11	302:22 303:4	149:6 150:16	75:2 76:8	284:17,21
187:20 188:5	303:11 304:13	151:13 155:2	125:8 127:1	crinone 205:2
190:11 191:17	307:4,15	155:11 180:21	137:22 138:15	205:22,24
192:18 194:18	309:16 311:7	182:16 187:18	183:11 267:1	criteria 163:24
194:24 196:15	312:21,22	312:16 313:7	339:17 340:8	187:10 242:3
196:24 198:9	315:3 317:24	342:7 363:14	358:1 360:17	critical 185:24
198:10 199:8	318:17 320:12	cosmetics 51:23	362:19 365:6	203:24 323:4,7
199:15 200:14	320:24 322:1	54:22 69:14	368:1 370:4,10	323:18 324:9
201:1 208:15	322:19,22	97:15 150:18	counselor 59:7	350:17
209:16 211:14	323:8 324:10	153:3 154:10	60:22 61:23	crosslinks 230:9
211:24 212:1,9	324:23 325:2	178:2 179:8	84:3 90:20	crossreference
213:22 214:2	326:8 327:18	180:24 181:17	93:20 125:20	4:17 19:15
214:18,21,22	328:20 329:8	181:24 182:2	count 149:14	109:15 191:3
216:11 217:2	331:11 332:3	289:2 311:22	counted 135:9	crowley 1:14 4:4
217:17 221:4	332:20 334:9	312:13,15	136:1,2	4:22,23 5:5 9:3
221:11 222:10	335:5,8,15,16	313:9,13	couple 31:15	9:15,23,24
223:4,12	335:20 336:2,3	cottreau 310:4	146:5 185:12	11:23 15:22
225:24 226:13	336:10,11,15	coughlin 3:7	206:16 262:11	17:19 19:2
226:20 228:12	337:2,3,5,12	coughlinduffy	263:22 264:2	25:6 34:4,5,13
231:23 232:3	337:16,24	3:9	295:2 356:24	34:18 35:8,12
233:8 238:24	340:12,13,15	couldnt 37:22	course 12:22	47:18 75:17
243:22 244:15	340:16 342:23	39:19 55:10	44:16 127:20	76:4 105:6
244:23 245:7	343:1 346:4	128:1 201:3,16	334:3	117:9 192:9
246:4,19	347:1,6 360:8	204:11,21	courses 146:5	228:4 235:17
252:23 253:10	360:18,19	270:17 322:7	court 1:1 9:6	246:2 252:13
257:21 259:5	361:1 367:13	324:11,13	24:11 72:1	258:23 259:2
259:15 261:11	367:14 375:7	339:21	319:12 329:18	282:23 294:24
261:24 262:8,9	corrected 91:22	coumarin 6:22	346:3 347:12	319:16 329:17
			<u> </u>	<u> </u>

				Page 387
333:16 335:3	avtotovioity	63:10 373:9	89:24 90:2	denosed 49.1
	cytotoxicity 221:23	375:15	148:17 165:10	deposed 48:1 58:14
339:4,15 340:5	221:23			
341:5,11 364:2		dated 40:22 372:14	193:9 241:16	deposing 373:16
364:7 365:10	d 1:14 4:2,4 9:15		241:20 259:7	deposition 1:13
366:11 367:22	51:8,22 55:19	dates 38:4	269:3 370:22	4:15 8:2 9:3,12
371:11 372:8	335:3 372:8	daughters	definitions	9:12 10:1,4
375:15	375:15	220:23	261:4,11 370:5	11:5,8,8,18,24
crowleys 5:7,8	d3 279:22	david 64:19	370:17	12:5,19 13:1,7
26:6	dad 213:12	day 1:16 152:13	degeneration	18:12,18,21
crude 6:8	dadgum 295:22	159:16 201:22	117:14 218:2	19:22 20:2
135:14 164:18	damage 116:20	202:3 334:3	degree 17:20	21:13,14,19,23
170:1,12,19	117:2 118:19	375:19	18:1 53:12,16	22:5,19 23:18
171:12,15	285:18	days 18:11 19:6	158:4 341:21	23:21 25:20,23
172:1,17	data 4:22 19:19	352:17 373:16	341:21 360:16	26:10,14,16,21
csr 1:16 372:13	24:3 74:10	dbp 181:17	362:6 363:9	26:23 27:2
cue 73:3		dc 2:19 3:19	366:16	29:8,10,24
culture 286:4	76:6,14 83:21 133:10,16	deal 40:1 341:24	degrees 47:2	30:20 35:1
cultured 183:23	154:20 161:18	dealing 329:4	dehydrated	37:10 41:15
230:9		death 284:23	101:19	46:16,21 47:23
cumulative	184:16 185:6	308:22	dekker 23:5	64:1 74:22
201:20	211:19 220:18	december 15:6	delay 356:12	79:22 80:3,15
current 22:7	225:6 230:3	17:8,17 18:4	delisted 169:11	85:24 89:17
26:17 141:24	243:6 247:19	20:12 41:1	delivery 206:1	96:19 104:7
142:9,18 159:1	249:17 252:8	80:4 365:22	demir 230:11	120:11 121:9
159:7,22 160:6	252:10 254:6	decide 31:13	demonstrate	155:10 157:23
161:19,22	256:14 258:19	49:24 189:20	183:19 185:5	157:24 160:23
280:4 346:23	258:20 261:22	decline 39:10	317:10	163:3 164:12
358:6	264:21 268:7	deem 11:20	demonstrated	167:13,18,22
currently 51:15	271:15,19	deemed 373:19	106:22,23	170:9 171:11
curriculum 5:5	275:8 277:3	deepdive 216:16	114:17 182:11	173:19 177:16
26:9,17 50:21	291:6 305:13	defendant 1:14	197:15 255:12	203:2 224:22
customers 70:9	305:15,21	2:21 3:10,15	262:7 328:6,6	239:12 240:2
cut 250:20 261:9	320:2,8 344:15	3:20 7:8 49:6	demonstrates	246:2 248:13
268:13	344:18,23	defendants 9:10	265:21 328:8	263:10 290:18
cutoff 203:13,19	345:23 363:10	348:13 365:24	demonstrating	295:1 362:3
cv 26:9,15 60:4	database 109:23	defense 40:21	185:10	364:19 366:1,9
cytogenetic	110:15 139:5	46:3,6 207:4	dep 177:23	370:3 371:10
118:18	140:5,8 210:10	defer 206:24	179:6 180:15	371:13 372:6,8
cytogenic	210:17 211:1	207:12,14,23	181:16 182:2	372:9 373:3,13
116:19 117:2	211:19 359:24	215:15 303:10	182:12 352:24	373:17,18
117:10 230:15	360:3,18	deficient 366:19	department	depositions
285:17	databases 74:14	define 30:6 58:1	310:24	45:10,13
cytokines	109:15 111:10	145:3 193:2	dependent	deps 1:23
308:24	150:14 151:1	308:12	81:13	depth 232:22
cytotoxic 116:3	343:21	defined 89:18	depends 188:20	derek 286:2
116:15 119:3	date 9:4 20:8	147:6 209:15	191:12 221:13	dermal 130:7
220:9	22:9 37:9,24	definition 5:12	deponent 375:2	272:24 284:20
		<u> </u>	<u> </u>	<u> </u>

				Page 388
211 22 212 12	120 2 205 1 7	25225		1
311:22 312:12	120:3 205:1,7	353:2,5	disclose 66:23	distributed
312:15 323:7	208:24 278:9	dif 19:18	77:12 80:10	81:23 214:14
325:11	developing 30:3	difference 29:17	disclosed 19:9	distribution
dermatology	35:13 73:10	128:9 207:17	36:16 41:23	232:7 268:10
161:12	216:24	differences	76:20 135:10	district 1:1,2
describe 52:9	development	19:18	136:3 140:3	disturbances
349:21	54:24 70:3	different 34:19	304:21 327:12	234:1
described 31:16	212:16,24	65:2 92:1	368:13	division 52:1
52:13 53:19	216:19 219:8	110:5 112:18	disclosure 98:1	divisions 52:2
55:13 56:22	228:23 229:20	113:1 121:1	98:17 349:3	dlimonene 6:20
169:24 171:5	234:2 246:18	129:20 130:5	discuss 296:12	116:2 198:3
172:18 194:17	310:10 315:22	130:16 145:4	315:16 321:19	218:9 219:4,7
297:1 301:12	316:4,18 317:1	145:11,13	331:5	219:18 220:9
301:15 336:1	317:11 318:15	146:11,16,19	discussed 80:11	220:14,21
describes 19:17	332:2,15 342:4	149:15 171:20	186:13 200:15	221:20 222:6,9
50:22 161:5	342:5	179:14 196:1	214:12 244:17	222:17 225:15
171:5 194:12	developmental	199:3 230:24	246:16 288:16	225:22 236:10
describing 22:1	183:21	231:2 267:14	302:9 309:12	237:18 257:23
23:9	devote 42:15,21	267:15,16	322:9	257:24 258:5,9
description 4:14	dictate 283:4	274:16 298:21	discussing 334:4	259:3,18
5:4 6:4 7:4	dictionary	305:7 353:5	discussion 68:18	261:19,24
18:24 240:11	370:23	357:13 368:15	241:15 261:10	262:3 263:16
240:12 350:4	didnt 19:11 36:8	368:21	295:14 296:19	266:20 267:4
descriptor 30:19	39:11 84:16	difficulty 313:24	312:17	267:23 269:1
design 128:2	96:7 99:23	diluted 306:6	discussions	303:23
designated	103:15 126:18	327:2	338:19	dmp 181:16
281:4 323:3	128:6 149:14	diluting 306:11	disease 113:12	182:2
detail 122:22	149:14 150:18	dimethyl 183:24	210:19	dna 116:19,20
250:16 362:13	159:18 201:4	direct 230:23,23	dismissing	117:2,2 118:19
detection 79:12	204:22 206:17	247:4 256:10	127:24	285:18
determination	226:11 237:3	270:21 372:18	disorders	dnaprotein
139:1,6 320:15	287:15,24	directed 357:11	233:24	230:9
358:22 359:6,6	290:7 299:14	357:12	dispute 10:11	doctor 62:10
determine	305:3 309:19	directing 228:3	47:7,8,21 48:2	103:5 113:18
135:19 138:2	322:8 324:14	direction 8:5	48:7 49:5,21	114:22 120:14
300:11 330:8	351:10 352:21	directly 102:19	disputes 10:10	140:1 151:23
356:20	353:3,8 354:8	directors 51:16	45:21 50:5	249:12 254:19
determined	369:5	54:9	disrespectful	260:21 273:8
104:10 156:3	diet 272:20	disagree 92:12	317:21	273:20 280:17
259:20 269:2	diethyl 119:6	disagreement	dissolved 353:1	281:16 283:12
274:21 358:2	174:22 175:5	206:7,10	dissolves 65:21	365:21
359:15	175:12 176:12	disc 105:3 192:6	distillate 165:21	doctorate
determining	177:23 178:21	294:14,21	166:3 168:8,12	341:22
153:22 281:9	179:5,16 182:8	discern 107:17	168:18 171:21	document 1:8
develop 231:8	182:23 183:20	107:22	172:9	4:19 5:22
231:20	183:24 184:4	disciplines	distillates 6:7	11:14,19 12:4
developed 64:9	185:6 188:8	341:24	164:21 167:24	14:11 16:20,23
	<u> </u>	<u> </u>	<u>l</u>	

				Page 389
10 14 10 0 14	24 10 25 1	207.22.200.16	117.0.126.4	100 10 125 10
18:14 19:8,14	24:18 25:1	297:23 299:16	117:9 136:4	109:10 135:10
21:24 22:12,16	36:6 37:9,23	300:4 310:16	141:4 192:9	310:23
26:22 27:20	48:10 49:21	310:21 312:3	228:4 235:17	dydeks 79:19
87:4,22 120:19	55:6 56:15,17	312:18 315:6	246:2 252:13	136:4 141:4
143:5 155:22	62:7,13 68:12	315:12 316:14	258:23 259:2	310:5,18
158:8,15 160:1	68:17 69:3	317:19 318:2,5	282:23 294:24	337:23 338:2
165:5 166:11	70:7 76:20	318:7 325:14	310:18 319:16	E
246:8 248:17	78:16 79:11,17	326:12 328:11	329:17 333:16	e 4:2,12 5:2 6:2
252:4 290:19	80:7,10 84:8	328:22 330:17	337:23 338:2,9	7:2 374:1
346:21 352:7	84:14 87:3	331:15 333:3	338:11,12,20	earlier 114:16
365:8,14,17,20	91:10,18 93:13	336:13 341:1	339:4,15 340:5	131:22 182:13
365:22 369:23	93:13 94:6	347:22 348:2	341:5,11 364:2	193:22 194:14
documents 8:8	95:1 98:9,11	349:6 350:12	364:7 365:10	193.22 194.14
12:7 13:2	100:13 103:6	363:24 366:15	366:11 367:22	
23:24 24:23	112:24 114:14	368:2	371:10	204:4,7,16 214:12 220:2
25:11,13 36:2	122:20 124:16	dosage 301:23	draw 93:24	223:20 302:9
74:11,15,17,18	125:22 126:17	dose 121:17	132:7 309:2	309:12 312:6
74:24 75:3,3	128:16 132:6	124:3,17	355:14	335:22 337:14
76:7,14 142:7	132:24 133:15	125:13 126:1,2	drawing 266:24	
145:22	136:22 137:5	128:21 131:21	drawn 90:11	341:13 344:16
doesnt 82:1	139:16 142:4	131:23 132:14	126:20	350:8 357:20
138:16 146:17	146:2 155:15	133:7 134:3	drew 90:19 94:1	361:6 370:3
188:14 219:17	155:21 165:12	201:1,7,13,20	170:16 172:3	early 78:7 306:9
227:11 260:6	166:7 169:20	207:17,18	275:4	easier 174:2
285:8 294:11	170:23 174:1	209:13 221:11	drive 4:21 23:17	easily 91:21
327:6	181:12 183:6	225:22 233:5	24:14,20,22	east 1:18
dogs 274:17	186:17,24	252:20 266:5	25:3,7,15	eastern 1:2
doing 12:22	187:12 189:2	272:15 285:9	dropbox 41:10	easy 167:6
25:10,17 34:24	189:15 193:18	309:6,13	drown 129:3	eat 130:11
39:24 43:7	201:24 204:7	330:12 354:13	drug 46:18	eaten 229:5
74:3 100:12	205:21 210:7	354:15,18,24	57:14 59:22,23	edited 23:3
109:13 112:6	213:10,12,14	357:19	180:2,13,15	educate 63:21
112:21 201:5	213:18 214:8	doseandexpos	205:24 331:10	education 50:22
224:17 225:2	218:16 221:22	129:6	331:12 342:3	51:12 53:9
251:10,13	222:4,19 224:6	doses 274:16	drugs 64:11	56:23 62:18
292:3 302:16	225:21 227:1	287:21 357:8	97:14 154:10	122:10
337:1 348:20	229:12 230:11	dosing 119:8	211:23 257:14	effect 41:7
350:22 373:8	239:7 241:14	216:14	257:14 313:15	203:24 222:16
domain 360:10	242:2 246:12	dozen 233:3	356:12 362:15	262:7 323:4,18
360:12	250:17 252:20	dr 4:22,23 5:5,7	duct 265:24	324:9
donath 3:7	261:8 264:9,19	5:8 9:3,24	due 325:11	effectively
333:17	267:8 268:13	11:23 15:22	352:18	368:17
donors 230:7	269:12 270:9	17:19 25:6	duffy 3:7	effects 110:15
dont 10:18,19	277:22 281:18	26:6 75:17	duly 1:15 9:16	186:1 193:4
10:19 12:20	282:18 283:3	76:4 79:19	372:5	210:14 214:24
15:13 17:16,16	283:17 285:23	80:2,15,19	duration 253:8	215:10,19
18:9 20:9	289:22 293:24	97:21 105:6	dydek 75:6	216:3 230:14
	<u> </u>	<u> </u>	<u> </u>	

				Page 390
206 4 222 7	55.10	106.00.100.4	1	277.7.0.206.20
286:4 323:7	engage 57:13	196:22 199:4	93:22	275:5,8 286:20
356:2	64:9 186:23	217:13	ethically 283:24	348:20
effort 77:12	engaged 38:3	epidemiological	285:23 318:18	evidence 31:11
78:12 90:19	49:16,24 50:8	199:17 275:8	319:2,7	84:9 85:2
107:16,21	engagement	epidemiology	ethics 314:2	111:11 118:8
110:21 301:6	38:1	106:16 196:7	318:2	127:6 182:22
efsa 110:3	engines 369:15	epithelia 278:7	ethy 173:12	184:3 193:10
either 24:15	enhancers 81:21	equal 203:20	ethyl 52:19	229:18 230:23
32:20 36:4,15	enlighten 120:7	equivocal 184:3	118:3 287:8	233:17 235:1
37:3 40:17	ensure 122:22	220:21	288:14	238:22 239:2,5
77:2 91:19	enter 189:4	errata 373:6,9	etiology 213:14	240:14 241:3,7
106:4,17 124:5	219:23 231:16	373:11,15	etongue 64:10	242:8,9,11,13
142:24 143:12	231:17	375:11	64:21	242:16,17
143:19 159:3	entered 220:16	errors 369:9	eu 149:12	243:1,3,5
161:23 194:22	enterosorbents	escaping 205:14	eugenol 6:23	244:18,20
199:6 225:15	43:20 52:3	especially 72:20	118:11 198:3	245:1,2 255:17
225:23 286:22	54:4,9	216:3	198:21 236:13	257:6 259:20
298:6 302:11	enters 328:3	esq 2:3,3,8,13,18	236:21,24	259:24,24
327:17 369:20	entire 28:24	3:3,7,12,17	237:18 266:9,9	260:3,5 275:5
element 134:2	96:1 202:20	essential 167:9	266:12,17,21	279:19 284:19
elements 260:17	258:10 268:4	354:18	267:3,23 269:2	287:7 288:2
elicit 300:18	269:21 276:7	essentially	269:18 270:5	344:11 358:11
eliminated	entirety 154:9	110:23 351:1	270:12 271:7	358:13,14,15
81:24 97:9	entities 1:15	351:21	272:15,17	358:17
214:14	2:21 57:8	establish 134:6	274:21 275:6,9	evidently 370:24
elimination	134:6	196:22	europe 237:2	evzio 49:7,15
232:8	entitled 4:20 5:9	established	european 110:3	exact 37:9,24
ellis 2:13 3:12	5:12,14,19,22	128:3 193:22	118:7 127:21	172:1
email 76:17	6:9,12	213:19 222:7	149:13 198:24	exactly 26:4
emailed 76:10	entity 290:11	238:8 308:4	287:6,16	104:15 165:6
76:13	entry 5:16 14:2	311:11,21	288:11 290:1	171:5 335:23
employee 54:12	37:12 100:7,20	325:7 343:9	290:14 301:17	exam 62:21
employees 44:2	102:8 164:17	establishes	evaluate 57:7	examination
employment	164:20 168:12	364:8	84:6 161:17	9:19 333:13
206:13	environmental	ester 119:7	186:14 187:19	339:12 341:8
enable 201:5	96:5 161:13	esters 6:13	evaluated	359:23 364:4
253:2,14	237:2 281:4	176:21 179:15	204:23 257:4	367:2,19
302:16 309:20	290:2,13 292:7	183:20	358:20 367:13	examinations
324:15	enyl 173:15	estimate 16:22	evaluating 6:12	247:11 268:16
endanger	epa 5:9,19 85:13	17:2,6 18:2,3,7	191:6	examine 22:7
285:23	85:15,20 86:3	47:4 73:20	evaluation 6:17	84:9 111:11,14
endeavor 15:18	86:10 88:14	286:20	21:21 156:1	214:10 250:16
endeavoring	104:15 120:11	et 115:19 116:6	186:20 188:3,4	252:4 291:22
228:5	197:23 237:3	ethenyl 169:1,6	191:7 225:4,6	examined 22:3
ended 338:16	281:8	173:5,12,21	239:13 247:22	84:24 160:21
endometrial	epidemiologic	197:12	252:9 257:5	176:6 269:10
272:3	195:9,22	ethical 85:9	268:8 272:10	314:22
	<u> </u>	<u> </u>	<u> </u>	

				Page 391
examines	132:18 138:8,8	247:2,16	45:3,7 46:2,17	214:24 215:10
363:14	151:24 184:19	248:13,23,24	48:23 49:9	219:16 222:10
examining	189:7 251:12	249:8,16	50:3,7 57:20	222:15 223:2
92:22 113:3	260:24 295:11	251:15 252:6,7	58:1,3,6,17	223:15 224:3
example 70:11	328:10 363:18	256:13 258:6,8	59:9,15 60:20	225:10,12
127:21 135:13	exempt 98:17	258:13 260:16	60:24 61:9	229:19 231:22
142:13 150:15	exercise 20:10	263:8,10	78:20,21 79:9	232:2 246:22
303:21 304:24	362:13	269:15,17	79:12,14,18	249:21 250:3
318:3 330:15	exhibit 11:9,10	271:14 275:22	88:4 92:5	251:2 252:14
368:19 369:10	11:24 13:4,8	275:23 290:16	156:2 158:2,20	253:8,9 256:3
exceed 209:18	13:22 18:18,19	290:19 295:1,6	159:21 161:5	277:6 284:20
209:22 210:5	18:21 19:4,22	346:7,9,12,15	161:10 162:4	285:12 286:21
328:19	20:3 21:15,16	348:5 349:12	180:21 213:21	301:2 312:15
exceeded 280:2	21:19,23 22:5	349:14,24	213:24 214:1,3	313:10 319:22
329:7 330:9	22:19,24 23:8	351:5,8,9,11	268:22 274:20	322:3,17
exceeds 330:19	23:13,18,19,22	351:13,18	288:23 289:10	323:17 324:9
excellent 65:3	24:1,15 25:20	352:4,8,9	338:24	325:22 326:6
exceptionally	25:21,24 26:10	353:21 354:3	expertise 30:7	356:15,20
241:2	26:11,14,16,19	364:20,21,24	45:22 61:19	361:14,18
excerpts 6:18,20	26:21,23 27:3	366:9 367:23	62:4	364:8
6:21,23 7:5	28:9 29:6,8,11	368:7,9	experts 64:16	exposures 357:8
248:23 249:2	29:13,24 30:20	exhibits 33:17	79:1 85:9	express 41:21
258:8 263:11	34:17 36:11	74:22 223:20	108:10 161:11	334:12
269:17 275:21	37:11 41:15	368:13 370:1	207:1,12,15,24	expressed 332:9
exchange	64:2 85:22,24	exist 285:8	268:19,24	334:5 362:2
115:15 117:3	89:6,7,18	expect 61:15	303:11 310:13	expressing 33:8
117:18,23	96:16,19	219:9 228:10	expires 375:20	39:13 106:2,10
118:4,12,15	100:17,19	228:24 341:2	explain 82:10	109:1 208:13
230:5,19 288:6	101:8 103:21	expectation	225:2 308:18	322:16,23
exchanges 184:1	103:22 104:1,7	357:5	368:7	327:14 331:23
excipient 4:20	120:9,11 121:9	expected 363:19	explains 86:10	336:7
23:2	121:13 155:8	experience	exposed 107:12	extended 356:10
excipients 21:22	155:10 157:21	52:22 53:17,21	107:23 130:4	extensive 261:10
22:1 187:2	157:23,24	53:24 55:12	225:22 233:6	extent 61:18
excluded 156:1	158:4,9 160:24	70:23 71:7	233:21 266:6	181:4 299:18
excluding	163:4,5 164:12	experimental	272:16 287:23	334:15,18
104:14	167:11,13,18	238:24 239:4,6	315:23	extract 165:21
excretion	167:22 168:11	240:16 241:5,8	exposure 107:18	166:3 168:7,12
268:11	170:9 171:9,11	242:10,13,18	108:13 121:18	168:18 171:21
excuse 49:10	172:19 173:7	243:4 244:21	124:21 129:9	172:9 228:19
58:19 59:1	173:17,19	257:6 260:4	129:13,21	229:2,4,19
69:1 84:21	174:4 177:15	275:7	130:7,22 132:8	289:20
87:21 92:10,15	177:17 178:9	expert 10:1 19:7	134:9 182:16	extracts 6:7
93:17 94:8	179:3 180:6	24:2 30:13,15	189:1 204:15	135:14 164:21
102:23 115:4	203:3,4,6,12	33:15 36:22	204:16,19	167:23
122:19 123:18	239:9,12 240:3	38:13 41:24	208:14,24	extraordinarily
125:7 126:5	245:24 246:3,7	42:3 44:24	209:12 210:6	277:23
	<u> </u>	<u> </u>	<u> </u>	

				Page 392
	••	l .		
exudation	240:21	340:11	109:12 182:10	240:12 243:23
171:16,20	fall 239:8 242:2	feed 280:1	230:4 269:12	244:2 248:24
eye 110:12	falls 96:24 97:8	feel 71:3 81:5	301:7 304:22	259:6 260:19
231:11,12	falsification	120:16 160:2	314:23 320:5	300:4 323:22
307:14 311:10	86:13 88:5,20	166:14 234:10	finding 284:10	335:1 343:10
311:17 313:3,7	familiar 10:12	258:21 265:20	findings 250:15	350:3 351:15
313:9,10,17,23	23:21 41:1	316:8,10 317:4	254:11	368:19
314:6	89:3 119:18,19	317:16 327:21	fine 18:3 184:21	five 45:13 46:19
eyes 227:11	120:2,21	366:5	224:23	46:19 101:17
304:4,7 314:10	121:23 122:24	female 117:14	finish 49:14	189:12,18
	125:6,12 155:5	184:5 207:3	72:10,15 92:18	201:14 202:4
	155:17 163:7	217:9 218:3	93:18 94:9,11	fixatives 177:24
f 3:7,18	177:11 202:8	272:13 277:12	94:13 107:5	179:7
facial 52:4,15	211:3 224:1	277:14,15	117:8 152:1,3	flavonoids 64:3
53:18 54:2,7	237:12 238:7	278:4,8,11,15	152:7 184:22	flavor 51:24
54:19,21 55:8	239:20	females 227:12	189:18,20	52:1,1 65:2
325:18,18,19	fashion 344:5,7	265:10,10	205:18 208:5	169:7 229:7
facilitate 54:24	faster 166:9	272:4 277:12	231:6 232:18	342:10
facing 304:8	fax 1:23	279:16,19	235:17 251:21	flavorants
fact 106:23	fda 4:19 6:9	280:5,6 318:4	251:24 260:22	341:19
188:3 217:5	21:24 22:12	femtograms	273:15,20,21	flavored 64:15
222:22,22	58:2 59:19,20	350:14	273:24 316:13	flavoring 6:10
263:4 266:20	60:6,12,13,16	ferguson 3:3 4:6	finished 20:12	64:22 169:15
337:22 342:9	60:24 61:4,9	333:3,15,17	49:11 78:18	174:11 219:5
342:20 356:3	61:19 62:4	335:12 337:13	92:18,19 118:2	228:18
370:24	65:17 68:9,13	339:3 363:1,4	119:5,9 122:20	flavorings
factors 268:15	68:14,18 71:13	367:4,15 371:7	184:20,21	169:14
274:11 310:9	109:22 111:3	fertility 117:14	229:16 235:24	flavors 52:23
325:20	139:4 146:23	ffdca 99:1,11	260:24 302:11	64:3,6,12 65:4
facts 84:1,2 85:7	150:17 154:19	fibroblasts	finishing 142:10	304:19 342:2
352:2	169:11,12,20	285:20	firm 2:2 13:17	flip 79:10
fail 373:18	174:5,8 180:15	field 145:8 146:8	· · · · · · · · · · · · · · · · · · ·	flipped 79:6
fair 11:2 67:12	180:24 187:4	146:21 194:10	42:12,17,22	flom 2:18
78:9 83:22	301:17 318:2	362:10	first 9:16 13:6	floor 2:14
127:16 226:10	331:5 332:1,13	fields 161:11	13:22 18:11,23	flotation 39:8,14
227:24 249:5	357:1 369:2	figure 22:22	27:19 36:21	336:1,7,9,14
251:17 252:1,3	fdaapproved	110:22	37:11,19,20,24	337:2,8 362:19
267:9 273:14	331:10,12	file 33:14	38:2,17 45:2,6	362:21 367:8
335:19 336:8	fdas 22:6 122:24	files 366:15	53:8 96:22	367:12
349:9 362:21	140:4 173:20	filling 71:2	98:15 100:6	flower 2:14
fairly 84:5 302:5	february 46:22	film 65:21,22	101:7 105:6	flw 1:6
327:21	federal 1:18	69:8 220:4	121:8,13	fly 365:16
fairness 260:21	87:16 89:13	331:20 356:4	126:17 144:11	focus 342:3
fairytale 129:1	99:19 149:11	356:11	147:18 151:16	folks 70:16
faithful 247:8	150:23 151:4,9	final 41:16	174:4 177:8,20	175:11 199:1
faithfully	151:17 152:7	finally 23:15	178:12 179:4	289:8 291:18
174:15 178:19	154:3,13	find 73:18 85:21	180:12 218:8	follow 10:13
L	I	I	I	

				Page 393
150 7 262 10	102 12 104 10	217 21 210 11	227 10 242 24	200 10 200 10
150:7 363:19	103:12 104:18	217:21 219:11	337:10 342:24	290:19 300:18
followed 194:15	105:21 106:6	221:8,12	345:11 347:16	308:24
194:16	106:19 107:13	222:11,18	348:8,22 351:3	forty 2:14
following 119:7	108:1 111:6	223:5,18 224:4	353:17 359:1	found 31:12
272:24	112:14 113:10	225:18 226:1	359:19 360:23	74:19 114:14
follows 9:17	113:15,22	226:24 227:7	363:1,12	114:20,22
followup 340:8	114:13 115:5	228:13 229:3	370:18 375:9	116:2 126:19
food 6:10 97:14	119:21 121:20	229:22 232:4	formal 51:12	126:22 127:18
110:1,3 112:19	122:5,12	233:9,19 234:8	56:1,8,13,20	163:1 183:22
118:7 127:21	123:13,19	234:18 235:15	56:23 62:17	212:11 213:7
149:13 151:13	126:6 127:4,10	238:3 240:19	formation	218:14 220:9
153:4 154:9	127:17 128:15	244:22 246:9	323:10,14	230:8 246:5
173:22 174:5,6	128:23 131:7	247:3 250:5	formed 90:24	248:10,19
174:9 180:1,13	131:16 132:19	251:5 252:16	371:2	255:8 262:3
180:14 187:5	133:9 134:14	252:24 253:11	former 51:11	265:4 270:24
212:2 287:6,16	136:6,21 141:5	253:21 255:2	220:4	271:11,22
288:11 301:17	141:12 142:3	256:6 259:11	formerly 33:1	281:11,13
327:9	142:20 143:2	260:13 262:21	334:8	286:7 287:7
foods 153:5	143:15 145:9	263:20 264:18	formers 331:20	299:10,18
342:5,6	146:9,22 149:2	267:7 268:3	356:5	307:19 308:2
foregoing	149:9 150:5	269:7 270:7,14	forming 81:1	314:19,24
372:16 375:5	154:15 155:14	271:9 277:1,20	83:16 343:22	315:4,7 320:10
foreign 207:5	156:24 159:10	282:8,18	formula 345:17	320:13 368:10
208:9	159:24 161:14	283:15 284:5	349:19 354:5	368:22 369:1
forever 152:5	165:22 167:4	284:12 285:14	formulas 345:9	foundation
forget 277:22	168:21 169:17	286:14,24	formulate 52:5	300:15 347:17
forgot 188:14	170:22 171:22	288:19 291:14	112:3 131:4	348:9 359:2,19
form 21:2 28:13	172:10,14	294:6 295:19	205:15	360:24 370:19
32:8 33:3	175:21 176:5	297:11,22	formulated	foundational
39:17 48:19	176:14 181:3	298:9,23 300:3	52:18 65:16	370:20
50:11 53:20	181:19 182:4	300:14 301:4	67:23	four 10:8 45:13
56:3,9 58:7,24	183:2 186:2,15	302:1,13,23	formulating	45:14 99:10
60:7 61:3,12	187:21 188:6	303:5,12	40:10 362:15	101:17 122:2
61:21 62:6	188:21 190:20	304:14 306:8	formulation	149:10,24
67:6,13 68:11	191:11,18	307:5,16 308:1	30:10,16 31:20	150:11 197:9
69:2 73:12	193:7 194:4	308:16 309:8	45:24 66:11	236:4 237:14
77:24 81:17	195:1,24	309:17 310:20	151:12 230:8	256:18 350:3
82:7 83:8 84:2	196:11,16	312:23 313:20	352:14	fourpage 26:22
84:13,22 85:2	197:1 199:9	315:9 316:5	formulator 66:9	fourth 3:13 47:9
85:17 86:7	200:17 201:2	317:2 320:18	113:1	303:24 350:6
87:2,22 88:8	201:17,23	321:11 322:6	forth 67:2 71:3	fragrance 7:11
90:17 91:9,17	202:5,21 204:5	322:21 324:12	74:14 84:6	7:12,14 18:24
92:11 93:12	206:23 207:10	326:9,19	86:4 93:6	19:10,17 22:16
94:21 96:14	208:10,17	327:19 328:21	110:13,16	31:6,10 32:5
98:7,21 99:4	212:19 214:7	329:9 330:14	121:10 127:15	32:14 34:9
99:16 100:8	215:2,12,24	331:14 332:4	139:19 155:21	35:17,21 38:14
101:10,23	216:12 217:18	332:21 335:10	234:13 286:1	48:15,18 50:9
<u> </u>	<u> </u>		I	I

				Page 394
50 12 52 10 11	100 0 16	170 7 16	220 21 200 0	l , .
50:13 52:10,11	190:9,16	179:7,16	230:21 288:9	genotoxic
52:14 63:10,22	192:10,17,22	framework	gammaundec	117:17 118:9
64:7,18 65:6	193:3,14	31:17	369:18	124:16,18
67:19 73:16	194:21 195:11	francisco 48:3	gather 85:1	125:20 126:14
75:18,21 81:10	196:9,23 199:5	57:7	92:20 109:16	126:23 127:13
81:19 95:15	199:19,23	frankly 31:19	111:21,24	127:18 131:22
99:1,11 105:7	200:9 206:18	277:23	112:4	132:1,10
105:13,20	212:5,10	free 81:5 88:4	gathered 110:6	221:14,20
106:3,11,17,21	214:24 215:5	120:16 160:2	194:6	230:13 255:9
107:11,24	215:10,18	166:14 183:17	gavage 256:18	287:11 357:19
108:8,14 109:8	216:8 217:14	258:21	318:4	357:20
110:24 111:1,5	219:5 220:4,6	frequency 234:1	gel 70:12	genotoxicity
112:11 114:10	226:22 228:9	357:3	general 10:13	6:12 127:24
114:23 115:10	237:14 243:19	front 12:10	80:18,21 132:4	176:20 204:3
116:10,11	243:23 244:2	104:1,3 148:1	132:11 214:9	230:6 292:23
124:5,10,16	296:12 299:7	269:24	215:3 217:1,3	genotoxins
126:13 127:3	299:12 301:10	fruit 218:15	314:8 338:14	124:18 204:7
127:14 133:6	304:16,18	219:10,17	370:5,17	geoffrey 2:18,20
134:18 135:4	308:7 309:14	288:22 289:2	generalities	getting 48:1
135:19,23	315:16 321:19	289:16,17,18	130:9	68:1 207:5
136:8,19 137:3	328:4 330:2,21	fruits 146:15	generalization	316:9
137:8,16 138:3	331:16 334:6	218:20	188:7 314:13	ghs 6:15 202:11
139:2,13 141:3	334:14,20	full 100:2,4	generally 23:7	202:13,17,22
141:10,18,23	335:3,18	101:4 102:11	64:5 84:24	203:6,9 296:17
141:24 142:6	342:11,14,18	102:17 122:3	111:7 120:21	296:18,20
142:17,19,24	342:21 343:12	131:6,14 132:6	121:23 122:18	297:3,18 298:3
143:11,18,23	345:9,15,16	177:22 187:6	129:5 133:15	298:5 299:2,14
144:1,19,23	346:23 347:5	200:13 251:16	138:13 154:6	300:1,11 304:1
145:17 147:2	349:4 350:4,19	276:8	163:7 177:11	304:10,12
147:13 149:7	351:2 352:10	fully 84:5	206:9 214:6	305:3,8,13
151:8 153:23	355:8,17 356:4	152:12	227:8 229:5	360:1
154:11 155:1	356:6,13,16	function 214:14	250:3 253:18	give 16:21 17:1
155:24 156:4,7	369:3	funding 43:7	254:9 326:1	17:6 18:3
156:11,22	fragranced 5:14	fungal 205:8	361:18 362:9	25:12 27:13
157:3,7,8,15	fragrances	further 333:1	generallyacce	59:1 73:3
158:10 160:21	52:16,16,23	364:1,4,16	187:9	166:11 171:16
161:18 162:24	63:14 64:7	365:19 367:2	generate 15:5	189:11 191:8
163:16 164:5	112:17 135:11	367:19 371:3,5	24:4 217:5	226:5 233:20
167:1 169:1,7	156:15,17	371:7	generated 14:5	263:13 267:6
169:16,21	179:18 186:14	future 366:17	14:9,24 15:2	268:2 355:3
172:7 174:18	187:19 191:7		274:18	366:18
174:24 175:3,6	195:23 199:21	G	generating	given 10:4 11:6
175:17 176:1	200:20 214:5	galaxolide	12:14	17:21 19:13
176:13 178:22	314:5 331:13	352:24 353:1,3	generation	38:21 45:11,12
179:14 185:20	341:18 342:2	galloway 115:17	29:15	75:7 109:7
185:24 188:8	343:3 345:18	115:19 117:24	generic 46:9,10	110:19 124:9
188:11 190:4,6	fragrant 178:1	118:6,13	genital 81:8,16	124:12 126:12
			l	l

142:9 144:10	-			
144.9 144.10	311:4 313:8	gordon 3:2	45:16,17,18	happened 41:11
151:19 152:24	314:23 316:13	gordonrees 3:5	46:8,9	happy 26:2
171:6 248:22	321:1,5 327:8	gotten 96:7	guess 188:20	144:9 173:3
323:18 328:23	328:5 333:3	government	213:11 222:20	368:4
331:1 372:6	340:21 342:8	89:14 152:21	349:8	hard 25:12
375:7	353:22 356:13	344:1	guidance 4:19	344:1 349:9
gives 174:5	365:16 366:3	governmental	21:19,24 22:12	harm 144:1
O	gods 205:12	85:18 105:9	guidances 357:1	357:22
	goes 248:20	144:15	guinea 274:15	harmful 107:23
93:10 324:17	258:14 328:4	governments	gulati 118:16	211:14 358:2
	going 10:13 13:9	154:1	gums 135:13	harmonized
glanced 295:4	25:9 26:5	gracious 189:10	guns 133.13 guy 64:19	202:9
gland 280:11	49:23 67:16	grad 56:4	gynecological	hasnt 222:23
glider 71:1	90:20 93:20	grade 272:17	233:23	331:1
globally 202:9	96:18 104:22	graduate 56:19	433.43	havent 14:12
glue 220:3	112:5 114:1	56:21 77:8	H	
glued 328:1	115:12 131:6	338:15	h 4:12 5:2 6:2	17:22 67:7,7 89:12 108:24
O	139:15 151:15		7:2	
glycol 140:21 go 16:4,20 24:5	152:15 162:9	granting 174:9 graslisted 154:6	h315 304:1	120:13,15,18 176:4,6 191:3
0 /		0	h317 304:1	,
25:6 34:15	166:7,16	great 129:9	h350 297:7	191:20,20
39:22 40:3	180:19 181:11	341:6	h350i 297:8	198:15 235:23
55:8 64:17	181:22 183:13	greater 122:22	h351 297:9	271:11 355:8
72:6 77:18	189:7,8,17,21	203:20,20	hair 325:19,19	hazard 121:16
85:19 94:16	192:1 198:11	272:18 279:20	half 130:12	123:23 124:1
97:4,19,20	205:5 224:10	316:21	233:3 239:1	131:4 202:18
98:12,14,23	227:9,15 231:8	group 198:20	241:17	293:4 296:16
99:7,22 100:1	231:14,16	238:11,15,17	hamster 114:18	hazardous 99:20
102:10 109:20	234:13 235:15	239:8 240:4,6	115:16 116:3	128:21 129:8
111:2 112:6	237:5 245:18	240:13,23	116:16 117:11	headache 215:1
119:11 120:8	246:10 247:7	241:2,21 242:2	117:18,23	headaches
126:9 131:13	251:6,7 254:19	242:4,7 243:8	440 - 40 4 - 40	215:11
139:15 149:3	258:10 262:14	243:12,15,20		health 71:16,19
150:20 153:1	263:13 265:15	245:9 259:3,7	119:1,4 183:23	75:8,8 119:20
154:1 164:15	279:15 281:19	259:13,23	218:1 220:10	180:16 200:1
166:5 168:11	283:4 294:16	260:9,18	220:22 221:24	200:14 204:1
169:22 173:4	308:17 333:6	261:23 263:5,7	230:16,20	237:1 279:6
174:3 183:3	341:4 356:13	264:21 266:22	285:17 288:7	284:18 290:1
187:9 203:11	356:15 359:11	267:5 268:22	hand 89:5 96:18	290:13 292:7
204:8 205:18	371:11	269:3,4 273:3	325:18	311:1
	golkow 1:22,23	274:21 277:3	handed 351:11	healthy 230:7
	good 30:18 72:5	280:2 302:6	handing 27:15	hear 39:19
265:22 268:15	90:10 127:22	363:13	handle 132:22	72:19 73:2,4,5
271:14 277:24	132:22 219:13	grouped 163:11	219:10	165:12 270:17
288:1,5,10	314:12 316:7	groups 64:24	handling 219:17	280:22 339:19
`	google 109:11	147:19 247:18	hang 368:3	339:21,24
303:22 305:21	111:2 305:19	301:18 344:3	happen 112:17	heard 89:10
306:1 307:7	googled 193:24	grunenthal	283:20	120:5 183:5
L			<u> </u>	

				Page 396
240.2		252 2 55 1 =	250211121	200
340:2	histiocystic	252:9 253:17	358:2,11,12,15	277:2 286:1
hearing 35:6	277:8,11	254:6 255:5	358:18 364:10	358:6,10 359:9
60:11	histiocytic	258:19 261:16	hydrogenated	iarcs 268:1
heath 211:5	277:15 278:9	261:19 264:16	190:3,9,13	269:1
hed 183:10	278:15 279:16	270:4,11 271:3	220:3	id 12:6 16:4,19
held 87:19 88:1	279:18,23	271:6,11,15,19	hydroquinone	17:3,3 73:23
345:10	280:7,10	273:10 274:5	140:22	77:18 87:9
help 35:20 54:23	historical 209:9	276:23 282:5	hyperglossary	119:11 144:8
64:12 65:3	279:24 280:3	282:10,16	5:17	145:21 149:3
81:22 87:10	352:13	283:13,20	hyperlink	175:15 197:7
153:8 166:10	history 143:6	285:18 288:13	150:21	202:22 204:8
171:2 186:23	hold 55:22 362:5	288:15,18	hyperplasia	220:1 235:11
356:6	holds 82:1	293:4 318:14	278:8	247:10 270:8
helped 34:8	hole 227:9	359:16	hyphen 176:23	270:20 293:13
35:17 52:5	home 77:18	humans 6:17	hypothetical	297:16 314:22
205:15	homogeneity	115:6 183:1,6	129:1 228:14	341:12 349:6
helping 68:6	355:15	185:7 194:23	т	ideally 187:2
hematopoietic	homogeneously	195:10,23		ideas 89:19
246:24 250:2	137:19	196:4,10,18,24	iarc 6:16,18,20	identification
254:8	honest 85:10	197:7 199:8	6:21,23 7:5	121:17
hepatoblastoma	hope 367:5	213:1 217:20	195:18 198:2,8	identified 19:16
277:10	hopefully	218:4 222:5,23	198:20 236:5	36:4 45:16
hepatocellular	250:23	224:2 233:18	236:17 237:7	77:2 110:5
184:6 265:6,10	hormonal	234:9,12,15,17	237:17 238:6,8	123:22 126:15
265:17 271:1	233:24	234:20 235:2	239:13,24	134:19 136:20
277:8	hotel 1:18	238:12,16,19	241:21 242:4	137:4 167:2
hereto 1:19	hour 34:22 35:5	238:23 239:3,7	243:9,21,24	174:23 197:10
hes 152:11 160:2	35:10 189:8,22	239:14 240:6	244:3,8,14	216:9 217:15
183:13,17	hourly 35:4	240:10,15	245:5 246:3,7	236:5,17,22,24
227:21 251:12	hours 17:17	241:4,9 242:6	246:12,13	237:14,23
251:13 273:12	18:2,5 152:16	242:8,12,17,24	247:1,11,16	257:24 259:18
365:11,11	230:16 286:5	243:2,10,13,16	248:5,8,13	271:7 309:15
hey 189:6	houses 64:7	244:19 245:2,7	249:24 253:18	311:9 313:19
hi 339:15	human 82:20	245:10 251:3	254:6 255:15	314:6,16
high 128:22	115:1,2 118:20	252:15 255:12	255:23 256:11	322:14 329:3
284:20	119:19 128:10	259:10 260:1,3	257:4,24 258:9	334:20
higher 82:22	128:14 180:16	260:12 261:23	259:2,17,19,22	identify 19:12
106:23 200:7	184:10,16	264:22 269:6	260:10 261:15	26:13 34:8
216:23 217:8	185:5 195:15	274:23 275:10	261:21 263:5	35:17,20 65:3
219:9 228:11	197:18,23	276:18,21	263:11 264:20	109:14 110:18
228:24 278:5	200:13 204:1	283:24 284:4	266:21 267:5	123:24 131:3
300:21	217:23 222:7	284:11,19	268:5,16,18,24	139:14 144:19
highly 86:11	222:17 230:6,9	285:6,13,23	269:18 271:7	148:23 150:24
280:8 293:2,21	235:3,19,23	287:18 307:15	271:17 272:10	154:24 156:16
293:23	239:13 246:21	307:20 317:1	274:3,20	162:10 208:22
hilton 1:18	249:16,20	317:20,22,23	275:13,19,21	248:13 298:4
hired 153:7	250:1 251:1	317:23 320:16	276:14,17	301:6 307:23

				Page 397
200 15 211 16	07.10.05.2	001 (7.000.16	l. ,.	224222610
308:15 311:16	87:10 95:3	231:6,7 232:16	imperative	324:3 326:18
312:11 323:2	152:8 172:11	235:8,10,14	373:14	344:18 347:3
325:6 326:17	173:2 207:14	236:7 237:5	implicated	362:2 363:10
327:16 352:8	218:17 242:22	242:19,22	197:13 255:8	included 76:14
identifying	249:7 255:24	246:10 247:1,7	important 83:20	92:24 135:20
109:8	263:22 264:2	248:9,12	83:24 86:11,20	147:14 175:18
ifra 5:22 6:5,6,8	329:15 336:16	249:12,15	87:14 88:19	175:19 176:1,2
109:20 111:3	347:19,19	251:6,7,9	123:10 131:13	190:17,18
149:7,11 153:3	349:10 359:4	254:19 256:12	214:17 222:22	194:21 195:11
156:19,21,22	366:8 368:4	258:2,10	223:3,16	299:2,19
157:2,10,11,14	ilpi 103:24	260:15 261:3,4	231:23 241:2	301:10 331:9
158:2,10,12,17	im 26:4 27:15	261:5 263:13	291:16 302:3	334:7 343:17
158:21 159:2,8	29:9 32:9,21	265:15 266:15	310:9 330:12	345:1 346:17
159:22 160:7	37:8,10 40:5	266:15 267:21	350:22	includes 51:22
160:13,14	48:5 49:3,14	270:22 271:10	importantly	74:22 152:20
161:3,23 162:5	49:23 58:8	279:15 281:17	124:14 355:1	153:3 325:17
162:23 163:2	59:10 66:22	281:19 282:20	inactive 22:2,7	including 28:11
163:10 164:7	74:7 75:19	284:6 287:9	23:11 31:21	130:20 199:23
164:24 165:17	84:23 86:19	290:4,7 295:21	109:23 139:5	200:3 285:18
167:3,19,23	92:1,2 93:5	296:22 300:19	140:5,8 331:5	299:3 301:7
168:6,10	95:14,17 96:18	308:17 311:13	331:17 332:1	304:18 305:20
169:23 171:12	101:6,14	319:11,14	332:14	308:24 310:10
172:18 175:9	102:11,13	321:3 322:22	inadequate	343:19 349:19
175:11,13	112:15 113:13	323:11 324:24	238:22,23	income 44:17,18
185:24 186:11	113:17 114:8	328:10 335:23	239:3 240:15	incomplete
190:13,17	115:12 116:4	336:16,20	240:16 241:4	84:18 158:5
191:16,16	116:21,24	341:4 346:14	242:11,16	228:14 251:15
208:24 209:11	120:5 121:6	352:7 359:8,11	243:1 245:1	252:6
209:22 210:4,7	122:23 126:18	365:3 366:2,17	260:1,2,4	incorporate
301:19 311:10	126:21 129:14	369:11	358:14	119:16
311:21 312:12	133:12 138:15	imagine 112:7	inappropriate	incorporated
323:3 325:5,7	139:15 141:13	imery 74:17	93:2 144:8	102:21 104:8
325:10 326:15	149:19 150:6,6	imerys 3:10	inaudible	247:20 348:16
326:23 327:4,8	150:24 153:7	74:17 75:3	149:17	incorrect 41:9
328:19 329:4,7	153:15 159:11	333:18,21	incidence 256:4	increase 82:5
344:3	162:9 166:16	362:19	256:23 265:11	106:5,12,18
ifras 209:6	170:7,15 171:4	immaterial	273:4 277:7,12	132:2 199:7
ignore 182:15	172:5,5 175:1	357:19 371:1	279:17 280:1	293:2
235:5 255:6	175:22 178:5	immediately	incidences 184:6	increased 82:11
iid 140:19	178:24 179:23	37:23	217:8 270:24	82:20,24 83:6
332:18	180:3 185:8	immune 300:18	include 31:14	124:20 125:23
ill 14:12,16	186:4 191:1	impact 36:8	90:14 91:14	184:6 217:16
15:15 16:23	193:18 195:20	96:5 130:19,23	92:7 94:18	221:19 233:23
17:24 20:8	198:7,11 200:2	143:24 208:9	103:9 139:10	234:1,6 246:23
21:3 24:24	210:10 223:10	354:15 370:13	148:15,17	249:22 250:1,9
32:18 36:9	224:10,12,13	impaired 117:14	150:12 198:19	251:2 252:15
48:1 73:3	224:19,21	impartial 83:22	199:6 224:2	254:7 256:4,23
			l	

-				Page 398
277 7 12 10	200 12 15 10	200 20 200 0	22 2 0 22 11	160 6 161 22
277:7,12,19	308:12,15,19	298:20 299:8	22:2,8 23:11	160:6 161:23
278:6,22	308:20,22	299:11,19	31:21 67:24	insufficient
285:11	309:1,7,23	300:1,8 302:15	76:19 98:2,16	288:24 352:1
increases 182:24	310:8 316:1,20	303:3 304:15	99:1,11 111:1	354:11
184:5 300:20	317:7 321:10	307:3 309:19	138:6,9 139:5	insulate 86:12
361:12	321:14	315:2,11 320:1	141:11,24	insulation 86:21
independent	inflammatory	320:7 322:8	156:1 162:16	86:24 88:20
67:12,18	81:11 82:14,15	324:14 326:1	162:20 187:3	insult 321:13
135:17 138:1	82:19 105:14	326:11 328:17	196:23 203:24	insults 217:4
158:20 161:11	192:12 216:22	329:5 330:10	208:23 209:21	308:21
index 6:5 8:2	216:22 217:6	331:1 344:4,18	210:4 268:21	integrity 5:10,11
163:2	300:19 308:13	345:17 346:15	308:14 311:9	86:5,11,20
indicate 136:9	343:13	347:3,11 348:4	328:18 331:8	87:13,16 88:10
136:12,15	info 6:15 203:9	348:5 349:23	331:18 349:4	88:16,19 89:4
178:21	information	350:16,21,23	352:11 363:15	89:11,15
indicated 38:12	5:10 12:21	351:22,24	inhalation	intellipharma
125:20 337:14	18:23 19:22	352:21 353:6	108:13 208:14	49:6
365:21	20:16 24:1	353:17,19	208:19 256:17	intend 25:12
indicates 221:24	31:14,18 38:16	354:10,17,23	297:9	30:22 41:20
indicative 286:7	73:18 76:11	360:5,7,11	inhale 129:15	336:14
indisputable	84:5,11,17	368:11 370:9	inhibition	intended 231:9
308:4	85:1 90:19,21	370:20,21	116:20 117:3	355:5
individual 107:9	90:24 92:20,23	infuse 282:10	inhibitory	intending
107:11,17,22	93:23 94:5,18	ingestion 129:17	220:11	335:24
253:9 361:15	109:4,21 110:6	130:4	inhouse 57:9	intense 353:11
individuals	111:4,21,24	ingham 346:5	initial 13:10	intentional
321:23	112:4,11,23	ingram 75:15	337:15	17:24
induce 230:8	124:9,12	ingredient 5:20	initially 36:24	inter 49:4
induced 184:1	126:11 127:2,9	109:23 118:22	210:18 345:24	interacting
induction	127:15 133:14	140:5,8 149:6	initiated 19:11	230:24
117:17	134:23 136:3	155:2,11	injuries 45:4	interactive
industrial 57:12	136:23 137:6	160:13 161:18	innovator 46:14	102:20 104:8
industry 21:20	137:20,23	162:19 163:16	48:6	interesting
105:9 137:15	140:18 142:8	164:5,8 168:2	insert 58:24	166:5
137:17 144:15	142:11 143:9	170:19 175:18	inside 133:11	intermediate
174:12 343:9	144:7 147:23	176:1 180:21	305:24	357:4
344:2 363:13	150:20 174:8	187:18 190:17	insist 26:5	international
industryspons	184:15 194:2,6	190:24 202:18	instance 1:14	64:6 149:7
180:22	200:21 201:4	202:19 204:1	instances 127:20	156:22 157:1,3
inert 331:18	201:12,19,24	209:12 211:20	306:18	157:6,8 158:10
infants 234:3	204:22 226:3	212:15,23	institute 156:3	197:11 236:5
357:11	232:6 233:12	218:9 246:17	211:4	284:14
inflamed 309:4	253:2,12	331:5,24 332:1	instruction	internet 24:23
inflammation	278:19 286:16	332:13,14	38:22	28:15 99:23
67:4,20 82:21	286:21 287:2	355:21	instructions	224:9,13,15
83:5 300:20	288:24 289:9	ingredients 5:15	39:3 373:1	251:10,13
307:21 308:3	290:10 292:11	7:11,12,14	instructs 159:2	interrogatories
			l	-

_				Page 399
505515		77 16 7 0 16	1 250 2 10	
7:9 75:15	iref 208:23	77:16 79:16	370:3,10	judgment 202:1
interrogatory	irritant 82:5,10	217:24	january 1:11,16	326:12 330:18
346:22 347:8	296:21 304:21	item 21:12 37:19	9:4 15:23 48:2	330:24 354:11
interrupt	307:14 308:18	160:4 168:13	53:5 68:7	judgments
195:20	309:6 311:17	368:19	372:14	330:4
intraperitoneal	370:22	items 27:10	jdonath 3:9	july 38:20 53:5
273:3	irritants 110:11	77:10 93:15	jenkinson 51:19	jump 24:20,22
introduction	110:12 296:13	iv 274:16	53:14	25:3,7,14
177:21 178:11	300:12,17	ive 14:10 36:6	jersey 1:2 3:8	257:2
179:4,24	301:2,22 302:2	43:6 49:22	job 96:8	june 5:21 38:19
292:14	303:18 307:23	52:11,16,18	johnson 1:4,5,14	59:18,21
introductory	308:15 311:10	61:14,22 64:13	1:14 2:21,21	juniper 289:18
101:8	314:6,17,24	65:16 68:12,14	7:8,8 9:10,10	juniperus
invasive 280:8	315:1,13	68:17 71:6	32:6,6,15,15	288:22 289:1
invented 51:24	327:22	72:9 77:11	32:23,23 33:1	289:16
investor 54:20	irritate 313:24	78:11,17	33:2 75:2,3	jury 349:22
invoice 13:11,11	314:7,10,11	101:12 110:5	200:10,11	
13:23,23,24,24	irritates 313:23	116:22 122:23	253:1,1,13,13	K
14:1,1,2,13	irritating 304:3	152:13 155:19	286:15,15	kaya 230:12
15:1,5,19,23	304:6	155:22 193:8	287:2,2 328:23	keep 36:14
16:3,5 17:4,20	irritation 67:4	205:1,7 210:1	328:24 330:1,2	43:14 63:9
366:15,16	82:13,16,23	219:22 223:7	335:4,4,14,15	72:18 152:17
invoices 4:16	83:2 215:1,7	229:13 235:11	342:17,17	166:15,18
13:6,7,10,16	215:11 216:19	273:8 302:24	345:20,20	181:11 217:22
14:4,8,19,23	216:21 231:12	313:22 316:10	346:3,3 347:14	221:13 227:8
15:1,17 16:13	301:3 304:2	317:16 320:20	347:14,15,15	234:13 316:8
34:16 73:24	306:20,23	327:20 329:22	348:6,6,13,13	324:16
366:10,10	307:21 313:8	329:24 342:6	348:14,14,15	kemble 3:8
involve 225:12	313:18 314:15	351:7 366:14	348:15 349:16	ken 333:16
involved 36:22	isnt 166:23		350:24,24	kenneth 3:3
39:15 48:15,17	169:12 195:5	J	352:10 363:15	ketone 7:7
66:10 68:1	224:15 235:22	j 3:3,12 19:1,1,8	363:15 367:24	198:21 236:24
69:6,15,21	237:19 246:21	19:8,16,16	johnsons 7:10	237:5,22 290:2
71:8 280:6	261:18 262:1	74:17,17 76:18	7:13 328:18	290:20 291:6
291:13 314:2	265:2 316:15	76:18,20,20	334:7 345:14	291:12,13
362:20	329:10	144:13,13	346:18,24	292:12 295:9
involvement	issue 15:22	145:22,22	349:16 350:1	295:10 296:4
52:6 54:3 66:7	85:20 88:3	201:4,4 302:15	352:10 368:1	key 76:12
68:6 69:24	159:2,8,23	302:15 309:19	jonathan 3:7	kferguson 3:5
involves 44:10	160:7 161:23	309:19 322:8,8	journal 187:7	kidney 65:21
50:9 225:10	204:3 367:24	324:14,14	284:13,15	277:16 278:3,4
involving 45:3	issued 11:14	358:1,1 359:23	327:9	278:6,13
50:16,19 62:24	22:10 279:6	360:16 368:14	journals 63:20	280:11
69:16 295:15	346:2	368:14,17,17	110:1 327:5	kig 272:20
327:1	340:2 issues 48:17	368:22,22	js 359:23 360:16	kilos 355:12
	66:20 68:19	369:8,8,14,14	•	kind 79:6
ip 273:2		369:17,17	370:3,10	152:22 222:4
ipr 49:4	71:13 73:8	507.11,11	judge 349:22	1 <i>02.22 222.</i> T
		•	•	

				Page 400
253:14 286:17	208:11 209:6	356:18,19,20	181:7	limited 32:4,13
302:17 316:8	210:16 212:12	356:21,21	left 177:21	61:4 163:20
352:18	213:5,10,12,14	357:18 358:5	180:10,11	165:3,11
kinds 231:10	213:18 214:8	368:2 370:21	181:4,7,10,13	209:12 238:23
kinetics 214:13	215:16 214.8	knowledge	355:13	240:16 242:8
	· ·			
klevorn 2:8	218:16,18,21	112:9 169:18	legal 44:10,19	244:18 250:18
klimisch 224:20	219:17,20,22	297:18 314:8	59:15,17	260:2 275:5
225:4	225:14,21	316:6 325:3	legions 280:10	358:11
klotsch 171:17	226:11,15	known 32:1	legitimate	limits 203:13
172:22	227:1 229:7,9	51:19 109:18	245:17	limonene 195:18
knew 279:13	229:11 230:11	120:4 197:13	leigh 2:3,5	218:10,12
know 25:8 36:16	231:12 232:15	204:9 212:13	lemon 185:18	limonum 185:15
38:3 49:21	232:23 247:12	262:16 348:15	186:7	185:17 186:7
55:6 63:14	247:14,23	kocaoglu 230:12	lemons 218:19	186:10
64:5,21 65:4	248:1,3 252:20	kotkoskie 23:4	lengthy 268:5	line 8:6,9,12,15
67:1 70:7,11	253:8 262:15	kpoviessi 116:6	letter 38:1	164:20 358:3
74:12,16 76:18	264:4,19 266:5	117:21	leukemia 277:9	370:7 374:4
77:10 78:12	267:11 268:14		277:13 278:4,5	376:2
88:10 91:21	269:11 272:15	L	level 56:20,21	lines 285:22
93:24 96:7	276:5 278:24	labeled 203:9	107:17 160:22	link 116:10
103:13 107:10	281:8,18 284:2	348:12 350:5,6	161:19 165:1,7	232:13 303:24
110:4,14,19	286:10 287:17	labeling 202:10	168:16 312:12	308:2,4 344:24
111:8,17	287:21 289:6,9	203:7	312:14 320:4	linked 217:8
114:16 124:9	289:12 293:24	labor 205:6	353:2	linking 261:19
124:14 127:23	299:13,16	laboratories	levels 82:20	264:16 270:4
128:16 129:6	300:4,16 301:2	43:4 46:13	107:23 160:19	270:12 271:7
129:15 134:23	301:8,18,19,19	205:20	301:20,22	276:23 277:18
136:22 137:5	302:3 304:20	lack 300:15	311:11,22	links 28:15
141:2,6,9,17	304:22,23	land 129:1	325:11	114:10,23
141:22 142:4	305:3,17,19	356:14	lewis 286:3	344:19
142:16,23	306:3,17,19	landed 220:17	lhg 1:6	list 6:11 28:22
143:17,21	311:4 312:18	largely 96:24	liability 1:6 45:8	29:4,14 31:11
144:3 146:15	318:1,4 319:21	97:7	liban 117:16	36:5 74:15,23
147:16 149:13	•	larger 250:14		· · · · · · · · · · · · · · · · · · ·
	323:17 325:14	largest 51:21	lift 90:13 92:5	74:24 75:18,20
153:7 155:15	325:22 326:10	lastly 356:18	93:8 94:17	76:15,21 77:3
155:21 157:9	326:22 327:3,5	357:10,18	103:8	77:22,23 78:13
165:20 168:16	327:22 328:11	law 2:2	lifted 101:3	109:7 110:24
168:22 170:18	328:16,22		liked 74:7	111:4 124:1
170:23 181:10	330:5,17	lawyer 349:16	likelihood	136:8 141:2,10
182:10,13	331:15,15	lawyers 376:1	306:20	141:22,24
183:11,19	333:21 337:18	lead 222:15	likes 353:23	142:5,16,18,23
185:8 187:5	338:11,23	307:21	limit 113:14	143:22 147:2,8
188:14 191:2	343:8 344:4	learn 49:24	164:8 165:6,16	148:6,7 149:5
193:11 194:12	349:6,9 350:12	346:16	208:24 210:6	151:8 156:19
195:16,19	352:23 353:3	learning 102:20	234:15 237:7	160:12 162:16
199:11 205:21	354:8 355:3,4	104:8	limitation	169:1,13
205:24 208:7	355:10,20,21	leave 108:9	209:19	173:22 175:13
		l	I	

				Page 401
175 10 176 0 7	205 17 211 5 5	120 1 17 22	20.12.64.4	
175:19 176:2,7	305:17 311:5,5	139:1,15,22	38:13 64:4	M
176:19 183:7	327:12 343:19	147:24 149:15	86:19 101:7,15	m 1:16,16 2:3,18
185:19,23	343:20	151:17 153:20	102:11 151:21	9:5 104:23,24
186:11 190:4	litigation 1:7,22	154:23 156:19	152:20 153:1	105:1,4 192:2
190:14,18	44:11 63:9	157:24 163:2	160:23 170:7	192:3,4,7
193:5,14 218:9	68:1 75:16	166:6,12,13	171:4 175:1	245:19,20,21
226:5,7 236:10	85:9 107:10	167:20 168:10	179:23 209:10	245:23 294:17
301:1 310:14	113:9 114:7	168:24 173:4,7	210:10 224:19	294:18,19,22
331:5,8 332:1	349:18	174:21 177:16	233:15 235:10	333:7,8,9,11
332:14 345:5,6	little 74:7 91:24	177:20 179:2	236:7 247:1,15	335:2 371:12
346:22 348:18	154:7 159:15	197:3,4 203:2	248:9 256:12	371:14
349:4,7,7,8,15	174:2 193:8	204:8 215:17	258:2 270:22	machine 1:17
349:23 351:12	264:5 281:20	218:7 232:5	271:10 295:24	maintain 88:10
351:18	293:4 305:6	240:2 254:2	343:17	maintained
listed 119:13	315:10 341:16	256:11 258:22	looks 26:1 86:8	210:18
138:11 140:7,9	357:14	265:15,22	104:19 246:14	maintains
140:12,15,19	live 131:23	268:19 269:11	248:17 272:19	210:16 211:1
150:2 151:9	livenote 1:17	270:8 271:13	275:24 348:10	major 257:3
154:12,17	372:12	272:22 275:18	353:23 354:4	majored 51:1
155:2 156:12	liver 271:22	275:20 277:24	los 2:15	majority 90:10
168:6 170:1	278:5,14 280:5	279:5 288:5,10	lot 72:20 73:14	348:19
172:21 175:4	293:2	290:18 292:10	268:14 302:15	makers 205:22
175:13 186:10	llc 3:15,15 42:14	292:13 295:5	313:8 325:20	makeup 325:18
187:3,5 190:13	44:3	297:16 305:14	327:4 353:7	making 25:9
193:4 196:24	llp 2:8,13,18 3:2	307:7 311:15	lotion 227:5	71:2 83:16
199:24 201:8	3:7,12,17	335:24 347:20	228:12	366:2
211:13,18,23	located 344:18	348:1 352:21	lotions 226:23	male 184:5
212:2 299:12	lodge 125:9	364:22 365:1,7	227:5 228:9	277:11,13,14
303:21 312:14	logical 31:17	366:3	louis 3:13 51:6	278:2,14,14
331:24 332:13	lois 23:4	looked 29:22	53:3 346:4	males 265:9
338:24 344:23	long 25:16 40:3	36:18 49:22	347:13	271:1,3
listen 264:11	152:14 189:17	63:23 77:5,9	louisiana 2:9	malignant 213:8
listing 28:10	189:23 248:20	79:3 109:24	love 229:6	213:15,17
29:23 30:1	255:4 269:22	110:3,14 111:9	low 220:12	manner 355:18
153:22 347:2	275:17 357:4	139:4 151:3	230:18	manufacture
351:8	longer 174:10	154:8 169:24	lung 213:4 262:8	51:16
listings 299:15	look 17:4 20:11	205:23 216:15	265:4,5 280:6	manufactured
lists 140:7	25:4 27:2	232:21 268:9	lungs 314:11	32:6,15,23
164:17,21	28:21,22,24	273:6 292:7	lymph 280:12	33:1
232:13	29:12 34:15	297:23 299:6,7	lymphatic	manufacturer
liter 230:16,17	73:23 74:21	306:4 310:15	246:24 250:2	51:21 66:2
literature 28:15	77:15,18 99:23	312:5 316:3	254:7	manufacturers
63:11 67:14	100:16,19	320:3 324:1,3	lymphocytes	360:14,22
74:13 111:9	101:24 103:18	326:23 360:9	118:20 230:6	manufacturing
113:8 114:6	103:20 109:21	369:16	285:19	39:9
133:2 193:12	112:16 121:4,8	looking 29:10	lymphoma	marcel 23:5
204:12 291:23	131:20 132:5	37:8,10,18	230:10	
	I	I	I	I

				Page 402
7.7.0	50 15 041 01	25011	164041650	220 2 205 15
marcus 55:8	53:15 341:21	350:11	164:24 165:2	220:2 285:15
margaret 2:3,6	material 124:18	mcneil 70:11	165:10,14,15	310:23
36:24 337:16	159:4 161:24	mdl 13:20 14:5	191:16 194:23	mesh 309:2
337:18	163:15,19,22	14:9 16:17	209:11 211:19	met 37:21,24
marginal 265:11	165:2,11 173:1	17:8 39:5	212:11 259:8	68:14 338:6,12
mark 11:8 13:3	173:2 181:13	41:21 42:1	259:14,23	338:15
13:7 18:18	221:21 334:21	63:9 78:22	262:15 274:6	metabolism
23:18 25:20	345:1 357:21	meagher 2:18	276:17,20	232:7 255:10
26:9 89:6	365:18	mean 12:20 18:9	293:24 325:10	268:11
96:19 125:10	materials 11:18	27:8 33:16	358:11 372:17	metabolite
163:3 170:8	12:13 27:24	36:6 39:2	meant 354:8	254:18 255:6
marked 8:14	30:1 31:23	44:14,14 57:24	measure 350:15	257:3,10,17
11:10 13:4	75:1,16 76:7	63:12 65:1	355:15	metabolites
18:19 21:16	91:7 112:4	68:14 70:24	mechanism	255:11 273:6,9
22:24 23:19	125:21 129:7	71:1,5 74:6	239:5 241:7	273:16 274:10
24:15 25:21	131:23 132:10	76:16 82:18	260:6 268:9	metabolized
26:11,19 28:9	156:4 164:1	90:10 111:9	358:18	81:23 130:14
29:6 33:18	220:19 221:14	112:2,17	mechanisms	214:13 257:11
34:17 36:11	357:20	128:17,24	207:4	257:17
64:1 85:22	matrix 356:9	133:11 145:10	mechanistic	metaplasia
89:7 96:16	matter 13:14	147:15 169:19	243:5	278:7
100:17 103:22	14:6,9 16:17	172:22 186:22	medica 185:15	meted 358:17
120:9 155:8	16:17 17:9	188:14 189:13	185:17 186:7	methodology
157:21 163:5	19:24 20:21	191:19 194:11	186:10	108:23 109:5
167:11 171:9	21:10 25:19	195:5 209:17	medical 55:16	111:18,20
172:18 173:17	30:23 33:14	211:11,14,15	62:10 370:23	112:10 194:5
177:15 203:4	34:7 35:14	217:22,23	meet 187:10	194:15,15,17
239:9 245:24	36:3,23 37:12	219:16 222:20	meeting 60:14	300:10 311:3
258:6 263:8	37:17 38:11,24	227:11 241:15	60:16	362:9
269:15 275:23	40:19 41:16	250:6 261:8	meets 163:23	methods 79:13
290:16 298:13	42:1 45:8,19	268:4 273:14	melanoma	79:13
346:12 349:12	46:12 47:16	273:17 274:2	213:8,17	methyl 190:3,8
351:5,8 352:4	48:4 49:3,16	289:19 293:11	member 363:16	190:12 220:3
364:21	49:19 50:9	293:23 295:20	membrane 5:16	311:16,19
marketed 65:23	59:16,17 73:22	304:24 305:12	100:7,21 101:6	312:8
70:6,10	74:5 76:9 77:2	314:9 317:21	101:16,16	methylphenyl
marketing 1:5	80:22 88:7	327:3,7,20	membranes	118:3 287:8
marking 346:14	108:19 155:13	334:17 345:7	313:4,18,21	288:14
352:7	207:1 219:20	352:16,24	314:12	mice 118:21
marks 105:2	338:21 339:1	353:15	memory 18:2	119:7 184:5
192:5 294:20	357:10 368:12	meaning 267:5	139:17 262:8	256:5,17,24
mask 52:15	matters 30:16	334:21	287:24 289:23	265:18 271:4
53:18	42:5 45:15,20	meaningful	menstrual	272:5,22,23
masks 52:4 54:7	46:4,15 48:13	111:13,13	233:24	273:3 274:15
55:8 325:19	48:23 49:9	means 81:21	mention 237:3	277:11,12
master 51:4	74:4 273:18	154:19 159:6	mentioned	278:8,15,16
masters 53:11	maximum 350:6	160:14 164:4,7	17:22 215:7	280:8 292:22
		1		

				Page 403
202 10 10 21	165.14	257.22	205 20 202 2	212.15
293:10,18,21	165:14	357:22	285:20 293:3	213:15
295:15	misconduct 5:12	moment 166:8	move 119:15	myfortic 46:18
michael 1:13	87:1,3,17	277:21 279:11	152:9 153:10	myra 23:3
2:13,16 4:4 9:3	misreading	364:1	182:19 184:8	myroxylon
9:15,23 47:18	178:24	moms 52:22	187:13 227:22	162:15 168:3
189:7 335:2	missed 30:5	money 206:15	241:24 250:24	170:3,13 171:8
371:10 372:8	78:17 91:20	monograph	255:18,24	171:16 172:22
375:15	103:14,14	6:18,20,21,23	280:14 318:10	N
micrograms	173:10	7:5 154:7	moved 209:7	$\frac{1}{\mathbf{n} \ 2:19 \ 3:18 \ 4:2}$
220:12 273:1	missing 87:6	187:4 246:3,13	msds 5:17	naloxone 49:8
286:6 288:8	mission 66:4,16	247:1,16,21	132:21 133:11	name 9:22 34:2
350:14	68:6 205:12	248:5,14,23	134:24 299:6	42:12 43:18
middle 86:19	206:4	249:4 251:15	299:11,24	47:16 48:4
355:13,14	missouri 3:13	251:16 252:2	304:16,22	
midsummer	51:2	255:16 256:12	305:15 360:13	49:21 55:5,11 79:11 116:5
38:19	misstate 351:10	258:9,11,17,22	mucosa 101:6	
migrate 81:7,15	misstated	261:21 263:11	101:16 314:7	157:1 205:13 224:19 333:16
migs 272:20	218:23	264:20 267:15	314:17	
mike 189:6	misstates 87:22	268:5,12	mucous 5:16	369:21
mil 286:6	94:22 126:6	269:12,18,19	100:20 101:6	named 64:19
milligrams	132:19 194:5	269:21 270:9	101:15 313:4	names 55:10
350:14	223:13	270:23 271:14	313:18,21	109:9 110:19
milliliter 288:9	misstating	271:17 272:1	314:11	110:20 348:11
million 279:19	132:20	272:11 275:3	mucus 100:7	nanomoles
280:2 350:13	mistake 369:20	275:19,21	muffled 340:3	230:15,17
mind 166:7	mix 330:2	277:2 301:11	muller 123:2	national 117:11
173:8 270:9	mixed 137:20	304:18 305:20	multiday 356:23	117:19 120:3
348:2	233:22	monographs	multidistrict	121:10 197:21
mine 35:15 79:7	mixing 306:10	6:16 239:13	349:18	211:4 275:16
276:1,5 368:17	mixtures 135:12	248:8 274:3,18	multiple 52:1	278:1 358:19
minerals 52:21	203:14	mononuclear	55:10 68:15	359:5
mines 334:1	ml 220:12	277:13	71:6 129:12	natural 54:5
minimal 352:20	model 122:7	montgomery	213:13 247:11	nature 365:15
minimum 350:5	123:1,2 222:2	2:4	274:16 280:9	near 313:9
350:11	222:21 223:21	month 14:20	280:12 306:12	nearly 95:24
ministry 75:7,8	224:1 225:8	16:17 356:24	368:18	329:23
279:6 310:24	262:8 279:4,7	monthly 14:24	musk 7:7 198:21	necessarily
minus 47:1	316:15	morphologic	236:24 237:5	81:18 123:14
minute 233:20	models 115:6,9	118:20	237:21 290:2	160:16 195:2
240:24	123:1 218:1,2	morphological	290:20 291:4,6	211:15 222:12
minutes 72:6,12	328:8	285:19	291:12,13	228:15 305:16
72:13 120:17	molecular 30:9	morristown 3:8	292:8,12,18,23	345:19 361:21
189:9,12,18,23	51:8 57:8	mortality 234:2	293:8 295:8,10	necessary 122:2
mis 300:15	134:6 341:23	motion 228:1	295:15 296:2,4	131:18,20
mischaracteri	molecule 124:19	280:19 281:1	296:9	132:12 301:3
313:6	125:22 132:1	mount 3:8	mutation 115:15	301:23 319:22
mischaracteri	221:18 288:3	mouse 281:24	myeloma 213:13	322:3 323:17
	<u> </u>	<u> </u>	<u> </u>	l

				Page 404
]	
325:22 353:13	65:5,9 68:17	280:15 318:11	323:3 325:6	128:15,23
361:22 373:4	89:10 200:19	nonsmoking	350:7 354:12	131:7,16
need 17:14 24:7	200:22 210:1	230:7	368:22,23,24	132:16,18
25:7,14 27:12	285:7 286:15	normal 12:22	369:14,17,21	133:9 134:14
28:21,24 61:7	302:16 328:23	nose 245:12	numbered 1:15	136:6,21
71:24 72:3	new 1:2 2:9,19	278:7	74:18 164:14	138:22 141:5
81:5 84:5 88:4	3:8 24:13	notably 97:22	numbers 4:18	141:12 142:20
124:17,19	31:22 57:8,14	notary 375:22	19:10,12,15	143:2,15 145:9
132:6,24	59:22,23 60:7	notation 139:22	250:12 368:10	146:9,22 149:2
133:16 138:21	64:11 134:5	364:18 365:2	368:15,16,18	149:9 150:5
152:4,14	247:19 251:6	note 249:7 366:2	368:21 369:7	154:15 155:14
154:12 160:1	265:18	noted 135:11	369:24	156:24 158:3
166:12 178:15	newborn 234:3	251:14 373:11	nutritional	159:10,24
183:7 197:2,3	news 36:7	375:10	342:5	161:14 165:22
200:21 222:9	niaspan 48:5	notes 376:1		167:4 168:21
222:14 227:17	49:3	notice 4:15 11:5	0	169:17 170:22
240:24 245:11	nice 137:14	11:6,7,12,15	oath 170:12,14	171:22 172:10
245:12 254:20	353:16	11:24 12:5	object 21:1	172:14 175:21
255:24 258:22	nine 18:22	nots 332:6	28:13 32:8	176:5,14 181:3
270:8,15	ninepage 365:13	novartis 46:18	33:3 39:17	181:19 183:2
271:24 305:3	niosh 211:3,7	november 15:2	48:19 50:11	186:2,15
310:16 314:23	nitrosamine	16:6,7,18 18:8	53:20 56:3,9	187:21 188:6
319:15 357:16	323:10,14	40:23	58:7,24 61:3	190:20 191:11
366:5	noadverseevent	nrc 5:19 120:4,5	61:12,21 62:6	191:18 193:7
needed 63:12,14	320:4	120:12	67:6,13 68:11	194:4 195:1,24
353:17	nodes 280:12	ntp 183:22	69:1 73:12	196:11,16
needs 133:7,22	noise 72:20	184:2 268:16	77:24 81:17	197:1 199:9
183:14 274:3	nomenclature	275:16 277:22	82:7 83:8	200:17 201:2
neiman 55:8	130:2	277:23 278:12	84:13,19,21	201:17,23
neither 160:14	nonactivation	278:21 279:15	85:17 86:6	202:5,21 204:5
191:16	119:2	281:13 286:1	87:2,21 88:8	206:23 207:7
neoplasm 250:2	nonbile 265:24	359:9,10,15	90:17 91:9,17	207:10 208:10
neoplasms	nonclinical	nude 189:3	92:10 93:12	208:17 212:19
184:7 246:24	21:20	number 19:1,2	94:13,21 96:14	214:7 215:2,12
254:8	nonfood 181:24	64:7 65:1 71:1	98:7,21 99:4	215:24 217:18
neoplastic	nongenotoxic	81:18 106:21	99:16 100:8	217:21 219:11
280:10	125:24	109:14 112:22	101:10,23	221:8,12
nephrology	nonneoplastic	114:16 132:23	103:12 104:18	222:11,18
278:6	265:23	135:7,24 166:5	106:6,19	223:5 224:4
nephropathy	nonobjectiona	171:24 172:1	107:13 108:1	225:18 226:1
278:3	11:20	172:24 194:7	111:6 112:14	226:24 227:7
nervous 250:10	nonprescription	195:7 201:15	113:10,21	228:2,13 229:3
ness 310:4	211:23	206:21 207:4	114:13 115:4	229:22 232:4
neurotoxicant	nonresponsive	208:22 250:7	119:21 122:5	233:9,19 234:8
197:14	153:11 182:20	268:18 301:16	122:12 123:13	234:18 235:14
never 11:6 40:9	184:9 187:14	304:16,17	123:18 126:5	235:15 238:3
48:12 62:20,23	227:23 255:19	305:19 308:21	127:4,10,17	240:19 244:22
			<u> </u>	

				Page 405
246:0 247.2	270.17 201 14	75.10.01.77.04	165.00 166 14	251,24,252,16
246:9 247:3	270:17 291:14	75:12,21 77:24	165:22 166:14	251:24 252:16
250:5 251:5	306:7 307:5	78:4,9 80:6,7,9	166:18 167:4	252:24 253:11
252:16,24	330:14 340:23	81:17 82:7	167:14 168:21	253:21 255:2
253:11,21	341:1 342:24	83:8 84:13,19	169:17 170:22	256:6 258:12
254:20 255:2	345:11 347:16	84:21 85:17	171:22 172:10	258:21 259:11
256:6 259:11	347:20 348:9	86:1,6,15 87:2	172:14 173:8	260:13,22
260:13 262:21	348:22 351:3	87:6,21 88:8	173:13,16	262:21 263:18
263:18,20	353:24 359:1	90:17 91:9,17	175:21 176:5	263:20,23
264:18 267:7	359:20 360:23	92:10,15,17	176:14 177:1,5	264:4,10,18
268:3 269:7	363:3,12	93:12,17 94:8	177:9 181:3,9	267:7,14 268:3
270:7,14 271:9	364:11 370:18	94:12,21 95:4	181:19 182:4	269:7 270:7,14
277:1,20 282:8	objections 11:12	95:7,17 96:14	183:2,9,16	270:18 271:9
282:17 283:15	11:13,16 39:23	98:7,21 99:4	184:19 186:2	273:12,24
284:5,12	40:1	99:16 100:8,22	186:15 187:21	277:1,20
285:14 286:14	observation	101:10,23	188:6,21 189:6	280:18,24
286:24 288:19	25:1 285:10	102:23 103:12	189:15,22	282:8,17,21
294:6 295:19	observed 254:8	104:18 105:21	190:20 191:11	283:2,8,15
297:11,22	272:4 279:24	106:6,19	191:18 193:7	284:5,12
298:9,23 300:3	284:4,10	107:13 108:1	194:4 195:1,24	285:14 286:14
300:14 301:4	obtain 60:9	111:6 112:14	196:11,16	286:24 288:19
302:1,13,23	360:5	113:10,21	197:1 199:9	291:14 294:6
303:5,12	obtained 291:3	114:13 115:4	200:17 201:2	295:6,10,19
304:14 307:16	obviously	117:8 119:21	201:17,23	297:11,22
308:1,16 309:8	366:18	120:13,16	202:5,21 204:5	298:9,23 300:3
309:17 310:20	occasions 10:7	121:20 122:5	206:23 207:7	300:14 301:4
312:23 313:20	68:15	122:12,19	207:10 208:10	302:1,13,23
315:9 316:5	occupational	123:13,18	208:17 212:19	303:5,12
317:2 320:18	211:4	125:7 126:5	213:10 214:7	304:14 306:7
321:11 322:6	occurred 106:24	127:4,10,17	215:2,12,24	307:5,16 308:1
322:21 324:12	october 14:2	128:15,23	216:12 217:18	308:16 309:8
326:9,19	odell 2:3,5 4:8	131:7,16	217:21 219:11	309:17 310:20
327:19 328:21	11:11 13:17	132:16,18	221:8,12	312:3,23
329:9,15	14:14 15:16	133:9 134:14	222:11,18	313:20 315:9
331:14 332:4	16:11 17:18	134:21 136:6	223:5,12,18	316:5 317:2,14
332:21 335:10	21:1 24:19	136:21 138:8	224:4 225:1,18	318:21,24
337:10 363:1	26:2 27:12,17	138:20 139:23	226:1,7,10,24	319:1,6,11,15
objecting	27:21 28:13	141:5,12 142:2	227:7,14,19,24	320:18 321:11
219:13 251:9	32:8 33:3 36:9	142:20 143:2	228:13 229:3	322:6,21
objection 9:11	36:22 39:17,20	143:15 145:9	229:22 232:4	324:12 326:9
25:2 40:2	41:4,8 48:19	146:9,22 149:2	233:9,19 234:8	326:19 327:19
58:19 105:21	49:10,13 50:11	149:9 150:5	234:18 235:14	328:21 329:9
113:15 121:20	53:20 56:3,9	151:24 152:11	238:3 239:16	329:14 330:14
125:9 134:21	58:7,19,23	152:15 154:15	239:18 240:19	331:14 332:4
142:2,3 158:15	61:3,12,21	155:14 156:24	244:22 246:9	332:21 333:5
161:7 182:4	62:6 67:6,13	158:3,14	247:3 248:1	335:10 337:10
188:21 216:12	68:11 69:1	159:10,24	249:5 250:5	339:20 340:19
223:18 267:1	72:22 73:12	161:7,14	251:5,12,19,20	340:22 341:2
	l		l l	

				Page 406
		 		1
341:10 343:4	157:20 164:16	176:9 207:1	opportunity	368:12
344:9 345:13	171:11 174:17	313:2	144:10 255:23	outside 47:2
346:6,11,13	177:5,9 180:12	opined 79:4	267:17,21	72:21
347:18 348:17	180:13 181:22	opining 79:12	365:5 366:4	ovarian 62:24
349:1,13 351:6	184:1 185:14	145:15 208:18	372:9	67:2 71:14,20
352:5 354:1	188:9 189:14	opinion 7:6 33:7	oppose 228:1	82:6,12,24
359:3,21 361:3	191:24 197:5	40:15 81:10	280:18,24	83:7 106:12
363:6,17,24	198:13 203:15	82:2 83:10	opposed 327:5	108:9 114:11
364:11 365:4	204:6 224:21	84:3 91:1	oral 64:9 119:7	115:1,2 116:13
366:13 367:7	224:23 226:12	105:6,12,19	256:18 271:1	117:5 182:24
367:16,21	227:18 235:11	106:3,11 108:8	284:20 292:21	185:7 195:12
371:3,8	237:9 241:12	131:11 144:12	293:12	195:15,17,23
odor 179:16	245:8 248:15	144:16,18	oranges 146:15	197:6 199:7,18
offer 30:23 83:9	249:3 250:22	169:10 190:8	218:19	210:5 214:1,3
offering 19:24	273:8,20	192:9 194:16	order 9:13 17:15	216:10,20
30:7 83:12	293:15 294:15	194:20 209:20	28:19 38:1	217:16 219:8
108:12	295:11 310:4	212:5 292:13	109:3 131:11	219:10 228:10
office 5:11 89:4	310:16 319:9	309:22 321:9	132:12 133:21	228:11,23,24
89:10,14	319:14 338:13	322:17,23	138:21 158:17	229:20,23
offload 26:3	339:18,19	326:3 327:14	200:21 206:18	233:18 234:6,9
oftentimes	340:2,5,10,17	331:23 332:7,9	221:2 222:8,15	234:20 235:2
345:12	341:6 347:24	332:12,17,23	286:16 346:16	251:3 252:2,15
oh 164:16 219:1	348:3 350:2	336:7 343:22	350:10,17	277:19 278:23
246:12 248:12	352:6 368:6	371:2	360:4	279:4,8 283:14
346:9	older 209:5	opinions 19:23	organic 51:5	285:5,11 288:3
oil 118:14	omitted 97:13	20:1 30:3,7,22	341:22	294:3,11
162:15 165:20	249:10	32:3,12 33:8	organization	295:17 296:4
166:2 168:4,4	once 40:2 41:11	35:14,15,16	85:16,18	307:15,22
170:13 171:7,8	110:8 201:22	39:13 40:11	180:22 284:18	309:24 310:11
172:2 185:18	202:3 257:16	41:20 67:23	organs 217:10	315:22 316:4,7
186:8 226:20	364:24	73:10 74:5,8	218:4 278:11	320:16 322:18
228:8 288:22	ones 110:11,12	80:22 81:1	279:18 280:9	324:22 325:2
289:2,16,17,18	135:9	83:13,16,19	original 217:11	327:18 332:2
352:23 368:20	ongoing 362:22	84:11,17 85:2	373:15	332:15,19
369:1,11,19	367:9	93:6 94:1	originally 40:21	364:9
oils 167:9	oocyte 117:13	108:13,17,19	41:4 43:4	ovaries 114:19
okay 17:14 24:5	218:2	109:1,6 112:1	orleans 2:9	206:20 207:6
25:15,18 27:17	open 12:12	112:12 123:11	osha 296:18	207:19,21
27:21 40:5	270:1	208:13 311:6	oticara 43:5	208:9 219:19
46:20 49:13	openended	334:4,12	oticus 43:4	219:22 222:1
54:8 58:11	144:6 191:2	335:13,17	ounce 137:8,11	279:14 280:10
72:11,14 73:4	204:11	343:6 345:3	outcome 231:18	282:10 285:9
73:5 80:12	operate 239:7	352:14 353:9	outlicensed	318:4
87:8 95:2	241:9 358:18	353:13,18	210:20	ovary 114:18
96:11,20	operative	354:18 361:22	outline 344:10	115:16 116:3
112:16 113:19	242:11	362:1,5,8	outlined 301:11	116:16 117:11
117:1 147:20	opine 61:15 83:4	370:11,14	outset 9:9	117:19,23
				l

				Page 407
110 5 10 15 10	104415		100.10.101.5	121 5 12 122 2
118:5,13,15,19	104:4,17	pain 60:3	180:12 181:5	131:5,12 132:3
119:1,4 183:23	115:22,24	palatability	181:23 240:12	133:6,18,21
218:2 220:10	116:7,8,15	64:13	241:1 250:8	145:20 167:15
220:17,22,23	121:4,9,13	pancreatic	291:1 292:14	177:2 220:16
221:24 230:17	139:21,24	250:10	293:12	248:16 262:19
230:20 283:20	140:6,13,18	panel 118:22	paragraphs	262:20 279:23
285:17 288:7	145:4 148:3,18	156:2 158:2,20	90:4 257:2	291:20 347:4
302:21 303:10	150:2 164:11	159:2,21 160:6	paraphrase	354:14
oversight 15:20	164:15 167:15	161:6,10,22	91:19 103:13	partner 349:17
17:23 95:2	167:16 168:11	162:4 180:22	paraphrased	parts 242:7
103:16 180:1,9	173:6 174:3	181:16 274:21	96:11 98:8	274:4 350:13
oversights	177:2,4,6,20	288:23 289:5	100:9 101:11	party 210:22
180:14	178:12 179:5	289:10	paraphrasing	paste 90:13 91:5
overstatement	179:24 180:4	paper 96:12	92:2 96:8	93:8
79:2	186:4,5 192:20	177:12 310:5	pardon 234:16	pasted 90:5,8
owner 66:16	203:12 209:2,3	papers 67:1	paren 97:14	96:3 100:6
206:11 351:1	209:10 210:11	310:15,17	parens 97:10,17	pasting 90:21
oxidation 317:6	218:8,24 226:9	papillomas	part 22:23 24:12	92:24
oxidative 310:8	236:8,15	265:12 272:23	24:16 26:8	patent 10:10
316:1,20 317:6	246:13 247:2,7	paracaresol	28:5 70:13	45:21 47:7,8
321:15	247:15 248:19	237:6	78:8 133:5	48:2,7 49:5,20
oxide 257:3,8	248:21,24	paracresol	134:3,8 137:13	49:22 50:4
oxycodone 60:7	249:1,8,18	118:18,23	144:18 154:2	patents 66:23
P	250:7 254:3,4	197:24 233:21	158:21 206:12	pathological
	256:13 258:3	237:3,22 281:5	217:6,23 223:3	62:20
p 1:16 2:3	258:13 266:14	282:11 283:19	223:16 239:2	pathologist
163:11 164:4	266:15 268:12	284:11 285:5,9	241:18 242:1	62:15
192:2,3,4,7	271:14 272:12	285:12,12	242:15 248:7	pathology 62:18
245:19,20,21	280:21 281:3	286:5,12	248:15 268:24	62:24 161:12
245:23 294:17	287:5,9,11	355:22,24	272:13 279:19	patients 62:13
294:18,19,22	289:24 290:4,6	paracymene	280:2 291:22	pay 206:15,17
333:7,8,9,11	290:24 292:13	119:3	301:23 308:7	361:2
371:12,14	295:21,24	paradigm 5:19	308:10 311:8	payment 360:4
paes 6:13 177:23	296:14 303:22	120:2,12 122:6	313:11 321:14	pcpc 3:21
179:5,15	311:13,15,20	paradigms	350:22 363:10	pcresol 281:5,9
page 4:14 5:4	312:4,8 313:5	102:20 104:8	partes 49:4	282:6 283:13
6:4 7:4 8:6,9	346:20 347:21	paragraph	partially 125:19	284:3,11 285:5
8:12,15 13:22	348:2 359:8,8	95:13,15,18	244:23	286:11
18:23 53:2	374:4 376:2	96:1,1,22 97:6	particle 220:15	pdf 41:9 270:1
79:8 81:4	pages 18:22	97:20 98:5,24	220:16 328:4	pediatric 64:14
86:15,17,20	26:24 29:9	99:8,13 100:2	356:14	peel 185:18
89:5 95:10,11	79:3 121:5	100:5 101:4,4	particles 207:5	186:8
96:2 97:4 98:5	164:13 175:1	101:8,17	208:9 220:5,6	peels 218:15,17
98:14,16 99:8	185:15 233:15	102:12,17,19	328:1	peer 112:13
100:1,5,16	248:20 269:22	103:1 104:6,14	particular 37:17	peerreviewed
101:5,7 102:10	275:17 276:7	104:16 140:13	63:17,18	63:11 102:4
102:17 103:18	284:16 375:6	158:1 174:4	109:23 120:18	187:7 327:5,12
L	<u> </u>	ı	ı	

				Page 408
pending 95:8	peroneal 63:5	pharmaceutic	phthalates 6:13	232:18 253:22
183:13	189:1 200:5	57:5 341:18	physical 31:9	256:7 273:21
people 79:3	201:10 206:20	pharmaceutics	109:16 343:18	279:11 284:6
189:3 219:10	207:6,18	30:10 51:9	physiologies	293:16 324:18
229:1 302:5	219:21 229:8	341:23	357:13	333:4 339:9,22
305:2	231:15 308:6	pharmacokin	pick 64:5 184:16	346:8 354:3
peppermint	person 130:3	130:17	picking 241:17	373:3,8
369:19	132:5 274:7	pharmacokin	255:14	plug 24:6,7
percent 42:15	302:7,7	130:19 232:6	pieces 76:12	25:14
42:19,20 44:9	personal 3:20	268:10	350:20	plugging 109:11
44:12,16,18,22	45:4 47:20	pharmacologi	pigs 274:15	plunkett 80:19
202:20 203:21	178:2 179:8,19	109:19	place 325:16	plunketts 80:2
204:2 220:11	339:16 340:7	pharmacologi	placed 241:6	80:15
272:18 306:13	personally	257:18	places 55:9	plus 108:8
330:16,20	69:15,20 189:2	pharmacologies	110:5 151:16	pm 70:14
350:13 353:1	193:23	232:16	plagiarism	point 11:16 12:3
355:11	persons 89:19	pharmacology	86:14,22 88:5	12:8 40:10
percentage 42:7	perspective	30:11 57:8	88:21 89:18,24	75:7 76:17
209:18 331:16	31:24 229:14	123:3 130:21	90:2,23 93:22	87:15,18 171:3
pereirae 162:15	pertinent 12:18	232:20	146:2	171:23 189:5
168:4 170:3,13	peru 6:6,8	pharmacopeias	plagiarized	220:2 227:14
171:8,17	162:12,16	153:5	370:5	233:16 234:24
172:22	164:17,21	pharmaform	plaintiff 46:3,5	253:22 310:6
performed	165:20 166:2	47:18 57:4	46:7 78:21	335:21 366:20
288:16	167:23 168:4,7	71:4 206:5,6	107:9,22	pointed 76:17
performs	168:12,17	phenol 281:14	plaintiffs 2:11	188:10
158:20	169:23 170:1	281:23	7:9 10:2 11:20	pointing 249:15
perfumes 6:13	170:12,18	phone 37:15	13:1 18:16	points 71:6
178:1 179:8	171:7,7,8,12	64:6	21:14 23:17	340:3
perinatal 234:2	171:15 172:9	phonetic 55:7	38:22 39:4	poisons 129:5
perineum 81:7	172:17 188:10	photocopy	40:9,18 46:11	policies 87:17
period 141:10	305:1 318:3	258:18	63:8 73:10	polyps 272:3
141:18 319:7	pesticides 97:15	phototoxicity	74:9 75:2,14	pontificate
319:14	petition 174:7,9	186:6 188:24	76:8 81:14	227:16 255:24
peritoneal 328:2	pfizer 49:5	323:8 324:22	107:11,17	pool 302:5
permanent	ph 1:14,23 4:4	325:1	127:1 267:1	portion 130:13
325:19	9:15 51:8	phrase 264:19	347:12 348:6	181:4 343:24
permeability	55:19 335:3	phthalate	349:17 361:15	portions 255:15
229:10	372:8 375:15	174:23 175:5	plane 338:17	pose 180:16
permeation	pharmacal 66:4	175:12 176:12	plasma 309:3	269:14
81:21	66:16 68:7	176:20 177:23	pleading 346:2	posed 111:15
permissible	206:4	178:21 179:5	please 9:6,22	position 50:1
91:13	pharmaceutical	179:15,16	10:18 25:8	53:8,13,16
permission	21:21 22:1	182:8,23	96:9 113:18	274:5
125:8	30:15 49:20	183:24,24	114:2 117:8	positive 118:24
permitted	52:17 112:19	184:4 185:6	120:7 189:18	127:23 230:4
150:15 169:7	151:14 356:10	188:8 353:2,5	205:18 208:5	279:17 285:16
100.10 107.1	121111200110	100.000.00.00		

				Page 409
	<u> </u>			
positively 217:7	124:6,6 134:19	predisposed	preterm 205:6	76:20 336:1,8
possible 82:8	135:5,18,20	293:21 294:1	pretty 30:18	336:9,14 337:2
212:14,22	136:2,10,13,20	predominantly	191:10 261:15	337:8 362:20
236:17 237:24	137:9,17	303:20	344:2	362:21 367:8
245:9 263:1	140:14,16	prefer 17:3,3	prevent 101:18	367:12
266:13 283:24	141:23 142:24	129:24 329:20	205:5 207:5	processes 89:20
305:24 327:13	143:12,19	pregnant 52:21	previous 247:17	processing
364:22	144:20 147:3	prenatal 52:18	previously	39:15
possibly 197:24	168:18,19	preparation	45:13 48:14	prodrugs
237:4 242:5	170:20,20	18:12 34:24	77:11 187:24	257:15
243:9 276:18	172:8,8 173:1	35:24 88:6	195:14 223:8	produce 51:16
276:20 281:5	192:11,17	prepare 20:2	257:4 260:8	82:5 284:22
potential 6:12	193:15 196:9	29:3 38:18	300:17 301:15	306:23 321:22
81:12 105:15	197:10 200:3	39:1 74:4	303:1 320:21	produced 1:14
118:9 123:22	201:9,22	prepared 24:20	329:14	12:7 13:2
144:1 150:1	207:20,20	preparing 14:11	primarily 184:7	17:21,22 18:16
192:13 195:18	209:21 216:10	30:2 31:7	215:22	20:17,21,22
197:12 212:7	217:15 225:15	33:21,23 34:6	primary 74:13	21:8,12 23:16
216:8 231:18	225:24 232:24	35:13 73:11	149:16 214:23	24:16 33:13,16
236:6 237:16	233:7 236:4	77:1	215:9 342:3	34:16 74:18
237:24 244:1,4	237:15 243:19	prescription	principle 125:16	141:4 360:13
244:7 258:1	252:22 286:12	211:22	principles 132:4	365:23 366:12
259:18 262:2	286:22 302:11	presence 361:11	print 15:11,15	produces 82:13
262:24 265:3	309:16 312:19	present 3:22	printer 15:14,15	82:15
266:12 271:21	323:20 324:7	52:21 59:20	prior 11:17	producing
281:10 282:6	325:17 326:5	124:11 140:14	12:24 19:7	353:11
287:12 323:10	328:18 329:6	147:4,9 154:18	57:9,14 94:22	product 32:22
323:13 343:14	330:2,19 334:8	156:13 200:1	195:16 349:2	33:1 45:7 48:5
358:23	335:5 343:15	247:22 262:15	privileged 80:8	49:7,15,22
potentially	346:18,24	266:7 320:9	80:9	52:4 54:2,5
128:21 237:16	347:5 349:5	330:17,19	probably 16:6	55:3,11 60:5
303:13	350:1 352:10	334:22 355:17	44:12,21 77:9	63:4 65:23
powder 1:5 7:10	352:13 355:12	356:5	169:19 175:10	66:8,17 68:8
7:14 31:6 32:5	355:16 357:11	presented 60:15	238:11,15	69:5 70:3,19
32:14,21,22	powders 345:15	158:6 223:19	243:12 263:13	70:20 99:19
38:15 41:24	ppm 280:8	presenting	340:4 358:10	113:2,4 119:11
42:4 65:10,15	practice 14:21	59:18	problem 184:17	151:15 152:20
65:18 66:20,21	362:15	presently 48:22	241:18	153:8 188:22
66:24 67:8,24	practices 1:6	pressure 73:7	problems 129:4	202:20 204:2
68:10,14,16,19	85:1	presume 46:11	220:20 233:23	204:24 205:2
69:6,16,21,23	preamble 6:17	presumed	procedure 1:19	205:13,15
70:22 71:10,17	119:22 228:2	352:24 353:4	procedures 5:21	231:14 252:22
75:9 79:15,20	239:12,22	presuming	155:6,12,18	302:11 308:7
79:24 81:6,15	240:4	315:4	proceeding	308:11 312:20
105:8,13	precise 20:6	presumption	41:24 60:12	328:13 330:3
114:11,24	predecessor	142:8 219:16	process 39:8,14	356:7
116:12 119:10	300:1	pretend 91:15	61:1,10,20	production 8:8
		1	,20,20	1

				Page 410
products 1:5,6	278:12 313:11	109:3	311:7	163:24 272:18
3:21 5:14 32:6	358:20			
32:7,15,16,20		proteins 217:6 protocol 9:13	proving 113:7	purpose 12:11 22:4 23:12
/ / /	programs 359:6 prohibited	318:6	provisions 1:19	31:7
32:20,24 33:2	-		-	
33:9 38:15	163:12,15	protocols 318:8	pti 3:15,15	purposes 336:12
50:19 51:17	164:18 167:3	prove 81:14	pubchem	pursuant 1:18
52:17 53:18,22	168:13 170:1	provide 9:13	109:11 232:13	11:4
54:21,21 55:14	171:7 172:19	10:1 11:7 35:6	303:24 369:2	put 24:10 27:9
61:1,10,20,23	173:2	35:16 36:15	pubchemd	40:12 41:10
62:5 65:4,16	prohibits 162:23	38:15 47:13	194:1	52:19 65:22
65:19 68:16	project 63:17,19	57:17 74:9	public 360:10,12	220:23 229:5
69:11,16,19	projects 37:22	144:5 185:6	375:22	229:12 298:17
70:4,5,10,14	prolonged	253:2,14 287:3	publication 23:7	334:24 335:23
81:13 95:19	309:23	303:14 305:21	114:9,23 248:2	336:5,22
96:23,24 97:7	promote 81:22	309:19 311:6	publications	364:17 365:2
97:8 98:2	212:12 334:22	317:15 322:8	65:13 116:10	putting 108:20
105:14,16	promotes	326:11 344:4	published 65:6	113:2 325:15
138:5,13 139:2	262:16	351:21 368:4	65:10 66:19	0
139:7 140:23	promoting	provided 11:18	67:7 96:4	
141:19 144:2	281:14	19:8,16 20:17	108:21,24	qra 155:21
144:13,14	pronounce	35:12 40:22	109:18 111:19	209:7
152:22 178:1,2	116:4 174:2	41:12 46:16	111:23 112:7	qras 209:8
179:7,9,20	230:12	47:24 48:9,14	115:17 133:2	qualification
181:24,24	pronounced	50:12 75:1,17	134:24 155:20	279:3
186:24 192:13	45:17 218:11	76:7 124:1	160:17 187:6	qualifications
200:1,2,2,6	proof 313:24	136:22 137:5	211:20 216:14	341:16
205:1,9,10,23	propanedioic	142:11 143:5	230:20 301:8	qualifies 60:19
212:6,8 231:9	119:6	145:22 200:19	301:20 320:3	qualify 99:2,11
231:21 312:16	proper 221:2	200:22 201:12	357:1	quality 58:13
331:10,12	229:13	210:1 225:19	publisher 23:5	76:18,19
335:5 339:16	properly 40:14	226:2 233:4,13	publishes 327:4	quantify 207:17
340:7 342:7,9	properties 31:9	248:18 249:1	pull 16:23 24:22	quantitative
343:8,16	31:23 81:12	251:14 252:8	99:22 154:2	330:1
professional	105:15 109:16	286:16 302:17	166:8 258:10	quantitatively
42:16,21 43:2	109:19 111:14	329:24 344:19	359:12	163:20 165:3
43:23	192:12 296:8	345:19,24	pulled 169:23	165:12
profile 32:1	342:1 343:12	346:2,16,23	pulling 17:11	question 10:17
109:17 130:17	343:14,18	347:12 348:4,6	pulmonary	10:18,21,24
134:7	propounded	349:15 350:24	256:5,23	12:6 17:1,15
profiles 64:11	375:8	354:23 355:9	purchase 343:21	32:10 40:3,6
progesterone	proprietary	368:11,16	purchased	56:15,18 58:16
205:4	343:21	369:8,17	301:11	59:1,7 61:7
program 117:12	propylene	provides 86:21	pure 306:5	62:8 66:18
117:19 175:20	140:21	86:24 88:20	323:21,22	70:8 80:14
176:3 183:22	protect 39:24	203:12	327:1	87:24 88:11
184:2 190:19	protection 281:4	providing 70:2	purity 76:19	91:24 94:11,23
197:21 278:2	protective 38:1	108:16 160:18	157:16 160:18	95:7 108:3
L		I	l	I

				Page 411
112:16 113:17	343:11 347:22	R	162:1 165:4	174:4 175:8
113:22 119:22	348:1 357:18	r 163:12,19	169:19 174:16	245:17 373:5
121:7 125:10	359:4,14	164:7 165:10	177:13,13	374:6,8,10,12
126:7 128:17	362:23 367:6,7	165:14,15	178:3,15,17	374:14,16,18
128:19 131:8	367:17	304:3,4 374:1	179:10 180:17	374:20,22,24
132:9 133:20	questioning	374:1	181:1 182:7	reasonable 72:8
138:17,18,19	370:7	rabbit 227:9	183:7,9 195:13	90:1 362:6
138:24 141:9	questions 8:14	raise 366:4	218:17 240:18	reasonably
141:21 146:13	16:9 21:4	raised 367:24	240:20 241:1	197:22 359:15
146:16 147:18	25:13 31:16	ramirez 3:23	241:20,23,23	359:16
150:7,10 152:6	39:2,6 64:17	ran 39:11 40:13	242:19,20	reasons 148:6
152:9,12,17	83:21 84:6	336:2 337:4	253:23 254:13	148:15 150:3
159:12,17	87:10 111:15	range 44:22	254:23 255:3	151:7 305:1
166:1,23,24	113:14 124:2	280:3	255:22 259:6	reassert 11:15
173:5 175:22	152:4 191:5	rapidly 284:22	260:7 261:5	reavari 55:7
176:9 183:6,11	227:15,18	rappel 3:20	279:15 281:20	recall 17:16 37:9
183:12,15	228:5 237:7	rare 278:9	289:11 293:6	37:23 64:4
185:4 187:17	251:11 252:19	rat 266:3	293:11 306:1	146:6 315:12
188:15 191:15	254:21 256:1	rate 34:20,21,23	310:16 311:5	358:3 360:1
195:6,6,14,16	263:12 264:11	35:4,9	327:8 337:23	370:7
195:21 196:1	264:12 267:2,9	rates 219:9	338:2,5 372:9	recalling 223:10
196:12 197:4,6	267:10,22	228:11,24	373:3 375:5	receipt 373:17
198:16 199:3	293:16 295:2	278:5	readacross	receive 201:8,21
204:11 208:5	316:9 333:2	rating 224:20	291:19	349:3
215:22 217:12	336:17,21	225:4	reading 86:16	received 40:23
219:14 223:7	339:7,8,17	rats 117:15	115:20,23	51:4 53:11,15
224:10 227:20	340:8,19 341:4	265:23 272:6,7	160:4 247:8	76:17 125:18
227:22 233:3	341:5,12 343:7	272:16 274:14	260:15,19,20	141:6 349:7
233:10,10	354:13 357:24	274:15 277:14	261:3,4,5	364:19
234:23 235:11	358:3 359:22		278:20 319:11	receiving 278:2
235:16 237:19	361:4 362:18	277:15,15	readingacross	recess 104:24
238:13 249:23	364:17,23	278:2,4,14	291:3	192:3 245:20
250:21 251:18	365:10,20	reach 63:13	ready 249:12,13	294:18 333:8
252:5,12	366:6 371:4,6	207:19,21	270:20 279:9	recite 93:15
254:23 255:21	375:8	219:19 303:10	reaffirmed	recognized 41:6
261:2 271:5	quick 220:1	reached 302:21	181:16	145:8 146:8,21
273:22 279:2	272:22	352:14	realized 41:12	194:10 244:8
279:10 282:14	quicker 24:21	reaching 83:19		recollection
282:22,23	quickly 13:9	109:6 345:2	really 18:9 112:18 193:9	16:15,19 17:19
284:7 295:13	214:6	362:8	259:19 279:3	20:20 21:7
		reaction 125:17	289:7 294:12	37:13 76:12
296:23,24	quite 127:22	304:3		
303:1 305:6	189:16,23	read 12:4 61:14	342:15 354:11	77:15 297:15
317:5,9,17	250:13	79:7 80:5	371:1	315:6
318:2,13	quote 184:3	99:18,24	realtime 197:3	recommend
320:20 323:22	342:21	132:21 155:7	295:4	182:1
329:10,13,15	quoted 289:4	155:19 160:1	reason 151:11	recommendat
332:6 343:10	quotes 91:13		156:20 173:20	291:2
	·	·	1	1

				Page 412
, ,	205.0.242.12	001 10 206 20	224.5.260.6	1 . 04 1 00 15
recommendat	305:8 342:13	201:10 206:20	234:5 260:6	rely 84:1 88:15
163:10 209:23	referenced	207:6,18	294:3,11	202:13 222:21
210:3	74:11 107:7	registry 110:15	295:17 334:14	252:5 296:16
recommended	303:18 307:9	193:4 210:14	335:13	310:12
209:11	310:17 320:11	regular 14:19	related 50:4	relying 93:23
record 1:19	322:13 324:2	regularly	281:15,23	151:2 182:22
11:21 22:23	361:5	180:23	289:12 316:24	288:2 303:16
24:12 25:16	references 27:1	regulated 342:6	324:22 325:1	310:3 314:4
36:10 39:24	27:23 28:8,23	regulation 95:18	relates 1:8 50:9	322:11
41:9 75:13	29:18,20 34:18	96:23 97:7	117:5 132:10	remainder
100:11,14	36:15 237:8	343:24	147:18 267:4	249:10
104:23 105:4	238:6 249:24	regulations 58:9	267:24 271:22	remember
138:22 152:16	referencing	58:22 59:11,13	337:8 347:8	46:23 47:1,17
185:1 192:2,7	185:1 282:2	60:23 61:5	relating 17:8	64:20 77:19
218:23 237:13	referred 210:9	145:11 146:18	33:14 36:3	79:11 120:6
239:11 241:20	344:15	146:21 147:17	48:18 66:20	remote 9:14
245:19,23	referring 27:24	147:20 149:11	71:13 79:15	remotely 9:12
249:7 258:13	32:22 72:22	149:22 150:13	108:17 112:11	removed 142:13
260:8 294:17	115:10 130:11	150:23 151:1,4	127:2 143:11	169:13,20
294:22 333:4,7	153:14 160:2	151:10,17	147:10 250:1	354:5,6,7
333:11 364:18	167:14 176:22	152:7 154:3,13	258:19 267:3	removes 6:10
365:2 371:11	177:1 198:7	174:10	275:22 282:6	removing
372:6	226:8 251:23	regulatory	316:24 334:6	173:21 174:5
recorded 299:11	274:13 310:19	57:20 58:6,12	364:23 365:20	renal 262:3,5
299:13	342:15	58:17 59:9,15	367:12	265:6 277:9,14
rectal 250:10	refers 29:13	60:9,20 61:1	relation 362:22	renamed 43:5
reddy 116:16	165:20 166:2	61:10,19 62:4	relationship	render 112:1
reduced 354:9	368:23	95:16 97:5	124:17 125:17	353:13
reduces 306:19	refresh 37:13	144:20,24	126:1 129:6	rendered 47:10
reducing 118:24	77:6,15	145:3,7,16,23	131:21,24	361:22
reengaged	refreshed 77:10	146:1,7,20	216:8	rendering 32:4
303:14	regard 62:3	147:4,9,18	release 356:9,10	32:13 40:15
rees 3:2	145:16 232:3	148:5,7,18,24	356:12	108:7 194:20
refer 25:15	337:7 367:6	148:24 149:16	released 202:9	renee 3:17
32:19 81:5	regarding 50:13	149:20 150:1,3	relevance 293:4	339:15 340:6
115:12 252:2	67:24 68:9	150:12 151:2	relevant 84:17	renowned
329:18	71:13,17,20	151:21 153:2	243:5 268:7	161:11
reference 5:6	143:24 202:18	153:24 154:18	352:2	repeat 10:20
23:14 25:7,9	267:2 298:21	155:1 156:13	reliability 225:6	40:6 73:4
27:4,8,8 29:3	335:3 337:1,15	156:21 162:11	relied 24:3	114:1 131:8
36:5 74:23	338:20 347:9	162:21 174:24	74:15 77:13	159:11 175:22
77:3,22 85:12	354:13,17	182:8 185:20	78:13 92:21	215:20 284:7
107:4 115:18	359:7 362:19	186:20 188:4	134:22 136:9	329:16,19
150:13 168:3	367:8	188:18 190:5	141:3 142:18	340:1
174:22 176:19	regardless 81:24	191:8 283:18	166:20,24	repeated 357:7
177:8,17 234:6	160:19	340:14 343:10	167:8 170:16	357:8
275:13 304:10	region 63:5	relate 115:10	184:15 326:15	rephrase 10:20
	- 5			F 332 4 3 3

				Page 413
202.10	100 7 107 2 10	270.2 (11 10 12 7	46.11
282:18	128:7 135:3,10	370:2,6	11:19 12:5	respectfully
rephrased	135:22 136:4	reported 1:17	245:11 357:2	348:11
195:14	138:12 139:11	127:8 230:12	366:8	respond 183:13
replaced 209:8	139:16,19	234:3 252:9	requested	183:15,17
353:3 354:10	140:4 141:4	363:11	201:12 233:13	225:3 283:3
report 4:21,23	142:10 145:5	reporter 1:17	253:6,13 372:7	366:13
5:7,8 12:13,14	147:5,7,11	9:6 24:11	requesting	responded
14:12 16:5	148:19 150:2	43:11,14 72:2	38:23	282:21
18:17 19:7,20	156:17 157:2	75:19 116:21	requests 11:14	response 11:19
20:14,18,21,23	160:12 166:6	117:1 149:19	require 98:1	17:10 82:14,16
21:8 24:2,4,17	167:15 168:3	208:4 242:19	202:17	119:17 121:17
25:19,24 26:6	169:5,19 173:3	242:24 270:16	required 64:12	124:4,17
26:8,22,24	173:6 174:22	280:22 281:16	requires 279:3	125:13 126:1,3
27:5,11 28:1,2	175:2 177:2,6	281:18 304:5,8	360:4	126:15 131:21
28:6,10,17,21	177:18 183:3	319:12 323:11	research 5:11,12	131:23 132:14
28:22 29:1,1,9	192:16 194:22	324:16 329:18	40:14 67:12,18	133:7 134:3
29:16 30:2,21	202:14 208:21	344:6 363:2,5	74:4 87:1,17	174:6 183:10
30:21 31:1,16	209:15 210:11	372:12,13,18	89:4,11,14	183:17 201:1
33:16,21,24	218:8 232:10	reporting	126:18,20	215:6 216:22
34:6 35:1,13	236:3 248:19	126:19,22	156:3 157:4,7	217:7 221:11
35:24 36:8	258:2 262:24	193:19 231:7	174:8 197:11	273:14 283:4,7
38:18 39:1,3	266:8,11	reports 28:14	224:9,13,16	285:17 306:21
40:22,24 41:16	275:16 276:7,9	78:21 79:14,19	236:6 251:10	308:13 317:16
41:19 62:24	277:22 279:5	193:12 250:9	251:13	321:14,23
73:11 74:11,22	279:15,23	306:2,4 320:8	reserving 366:4	322:4 325:12
75:6 77:1,3,22	281:11,13,22	represent 37:18	resin 368:24	325:23 326:7
78:8,23 79:5,9	284:18 286:2	333:18 339:16	resins 135:14	responses
79:19 81:4	287:5 289:11	340:7 349:10	167:9	216:23 300:19
84:1,7 85:13	289:15 296:11	369:5	respect 13:19	300:20
88:6 90:4,8,11	298:5,15	representing	38:11 39:14	responsive 12:7
90:14,22 91:1	303:19 305:24	2:11,21 3:10	41:16 61:19	restate 359:4
91:4,15 92:7	310:18 311:1	3:15,20	65:14 67:8,10	restricted
93:1,6,8,21	311:16,20	represents 22:6	67:19 68:8,19	160:15,20
94:16,19 95:10	313:2 314:17	90:23 204:1	131:12 151:2	163:12 164:22
97:21 98:19	315:15 321:18	repro 278:11	162:4 191:6	164:24 165:2
99:3,13 100:1	326:17 327:17	reproduced	198:16,18	168:13 173:1
100:5 102:10	329:4 331:4	128:1	216:4,7 217:4	191:17 305:1
102:17 103:10	332:10 334:6	reproduction	232:2 234:23	restricting
104:3,16	334:13 335:2,2	217:9 372:17	246:3 247:23	159:3 161:24
106:20 107:7	335:8 336:9,20	reproductive	248:6 253:17	restriction
108:20 107:7	337:23 338:3,5	183:21 197:14	254:17 263:15	209:11,14
110:6 115:12	342:13,13	207:3 217:9	267:22 268:23	325:5,8 330:16
115:20,22	343:8 344:11	218:3 272:13	271:20 277:5	restrictions
116:7 119:13	344:13 349:3	278:11	298:3 307:22	182:1 301:15
119:16 124:15	352:18 353:11	reputable 85:15	309:14 314:15	326:16,24
126:16 127:9	362:3 363:8	85:21	324:6 326:4	328:20 329:5,8
120:16 127:9	367:11 369:6		329:2	
147.10,19	307.11 309:0	request 8:8	349.4	330:9,11,22

				Page 414
waanhmittad	242.19.22	157.11 15	256.10.21.24	121:24 122:3
resubmitted 41:6	343:18,22 345:5	157:11,15 158:12 161:6	256:19,21,24 257:23 258:1	
-	reviews 180:23			122:15,24
result 127:19,23		161:13 162:17	259:4,10	123:5,7,11,17
220:8 284:23	revised 40:24	162:21,24	260:12 261:3,8	124:20 125:1
308:20 324:9	rexpan 156:8	163:13,17	261:12,13	125:23 131:5,6
results 31:11	richard 349:17	164:2,9,18,22	263:2,6 266:13	131:12,14
89:20 126:23	rifm 156:7	165:5,19 166:3	266:22 267:6	132:2,6,7,13
128:13 286:7	175:19 176:2,7	167:24 168:8	268:21 269:8	133:1,5,6,17
308:22 344:10	176:11,17	168:14 169:8	269:10,24	133:21,22
retained 13:14	190:18	170:7,8 171:13	270:3,6 271:5	134:2,8,12
13:18 50:15,18	right 10:2 11:5	171:17,18	271:23 272:11	180:16 182:14
return 373:15	15:3,11 20:18	173:22 174:14	273:17 274:14	182:24 187:11
review 5:20	20:23 21:3	174:19,21	275:14,20	191:13 199:7
25:23 31:6,8	22:13 27:19	175:1,6,9,12	276:12,15,19	200:1,7,14,18
34:24 36:3	28:1 33:10	175:14 176:21	281:6 282:16	216:23 217:16
38:14 49:4	37:6 38:8	179:20 181:8	289:20 290:3	220:23 221:19
63:20,24 73:15	39:16 40:11	181:18 182:3	290:14,21	223:3,16,17,21
73:17 75:8	41:17,21 42:10	184:11 185:21	291:8,9 292:8	223:24 224:2
76:9 78:20	44:24 50:23	186:1,8,14	293:8,22 296:7	225:7 234:6
79:2,18 80:2	51:6,9,17 53:6	187:1 188:9,17	296:13,17,21	246:23 249:22
83:21 88:5	53:10 54:10	190:5,10 191:1	297:3,5,13	250:1 251:3
95:16 96:5	55:23 57:18,21	192:14,24	307:10,24	252:15 266:24
112:13 118:22	60:17 63:1	193:6,17,20,21	310:19 311:12	269:14 277:19
133:16 144:3	65:7 77:19	198:14 200:4	311:18 312:4	278:23 285:11
145:19,23	81:2,8 82:17	202:14 203:8	312:13 313:5	290:2,13 292:7
149:6 155:3,6	85:13 86:5	203:11,21	315:18,20	300:21 316:21
155:11 156:6	87:1 88:11	204:8,17,20,21	319:4 320:17	risks 6:17
166:19 180:21	89:3 96:13	205:13 206:7	321:20,24	161:20 187:1
187:19 193:23	97:2,18 98:19	206:22 209:1	322:5 323:4	237:2 239:14
274:20 289:5	99:3,14,18	209:13 210:10	325:8,13	250:9 254:7
289:15 305:18	101:9 105:17	212:3,8 213:5	330:10,13	robust 254:12
327:13 336:18	107:7 108:14	215:6 218:15	331:6,10,13,17	role 161:17
344:11 365:16	111:5 116:9	219:2,5 222:6	331:18 332:10	room 24:24
reviewed 67:14	119:15 120:12	223:11 225:11	333:18 334:16	rosin 220:2,15
77:20 79:15,22	122:4,11	226:2,23 227:6	341:6 351:17	356:5,8
80:15 96:6	123:16,23	227:17 232:12	355:14 356:1	rosinate 190:3,9
102:5 127:5	127:3 129:23	232:18 235:22	365:24	190:13 220:3
140:4 154:20	134:13,17	236:7,18,21	righthand	rough 20:11
155:12,22	135:5 144:16	237:6,17 238:1	178:11	round 43:7
162:17 177:14	144:21 145:1,5	238:5,9,12,19	rigor 362:12	route 130:18,22
281:9 284:17	147:5,11 148:4	239:14 240:7	risk 5:19 71:9	151:20 152:24
345:2	148:8,13,19	240:23 242:6	82:5,11,22,24	182:15 214:10
reviewing 25:11	149:1,8 150:4	243:10,13,16	83:6 106:5,12	219:15 355:6
39:8 63:11	150:14,22	243:21 244:5,8	106:18,23	routes 129:12,20
67:17,17 74:4	151:5,10,11	244:14,21	119:20 120:12	129:24 231:22
112:10 144:6	153:18 155:3	245:15 249:14	120:22 121:2	232:2 269:9
166:18 204:12	156:9,23 157:3	251:4 254:15	121:10,16,19	280:3
	,			

				Page 415
	405101	4-4 10 1-1		464 10 1 1
routine 63:15	185:10 187:4,7	171:18 173:23	searching 74:13	161:18 162:12
356:19	190:19 191:21	174:17 179:21	second 2:14 7:9	164:12 165:13
royston 3:15	192:18,24	181:20 182:5	15:19 40:24	166:6 172:2
rtecs 110:15	193:2,6,16	203:22 223:20	45:19 59:2	176:7 177:21
118:21 119:8	194:9 211:4	239:15 240:8	75:14 87:15	185:16 203:16
183:19,20	222:6 255:5	246:13 257:1	96:1 97:6,19	219:9 228:10
193:5,11 210:9	284:17 287:6	264:20 275:4	98:5 99:7	228:24 246:12
210:13,17	287:16 288:11	277:2 292:9	101:3,15	249:18 256:15
211:1,9,11,13	289:1 292:3	335:2 348:11	102:11,16	272:7 277:10
211:18,23	301:17 310:7	368:23	105:12 158:1	292:15 293:13
212:3	313:11 314:20	scent 52:20,20	174:3 179:24	303:23 359:14
rub 227:10	355:1,5,20,21	schedule 353:10	180:8 192:9	seen 11:23 36:7
rule 335:2	355:22 356:22	scher 7:6 198:24	194:16 246:13	120:13,18
rules 1:18 10:13	357:2 363:14	290:11,12	250:8 265:16	122:23 137:14
344:2 363:20	saint 3:13	292:17	291:1 292:14	218:5 239:21
run 206:13	sake 205:12	scholar 305:19	333:4 343:11	239:23
rushed 352:18	sale 206:12,14	school 56:5 77:8	349:7 350:5	segment 359:23
	saleh 176:24	338:16	secrets 99:12	selective 117:13
S	sales 1:6	science 30:10,16	345:10	sell 54:19 70:16
s 4:12 5:2 6:2	salicylate	125:15 203:23	section 5:6,8	sells 54:4 334:2
7:2,8 163:12	311:17,19	305:18 327:9	27:5 28:17	sens 231:12
163:22 180:1	312:9,10,11	sciences 120:4	29:10 95:15	sense 132:22
180:13,14	salt 129:3	121:10 161:13	96:2 102:13	146:17 309:3
safe 165:1,7,13	sample 355:13	scientific 5:10	146:4 153:13	336:22 342:22
181:16 182:12	355:14	12:21 86:4,11	153:16,20	sensient 51:20
227:11 274:6	san 48:2 57:6	86:12,20 87:13	154:8 189:20	sensitive 208:8
314:13	66:4	87:16 88:10,15	208:21 249:16	293:3,24 305:2
safebridge 57:6	sandra 3:12,14	88:19 113:7	249:17,24	315:24
57:11 132:23	sarcoma 277:8	114:6 181:23	254:5 256:12	sensitization
291:18	277:11,15	221:3 222:8	268:7 271:10	104:9 231:13
safety 4:20	279:16	237:1 290:1,12	296:11 301:1	306:20 315:21
21:21 22:3,8	sarcomas 278:9	292:6 307:12	303:17 315:16	316:17 319:23
23:3,10 32:1	278:15 279:18	362:6	315:19 321:18	321:10 323:7,8
57:7,12 68:20	279:24 280:7	scientifically	323:2 325:6	325:12,23
71:9 97:1,8	save 330:23	131:3,11	327:16 328:15	326:7
99:19 109:17	saw 352:19	222:16	329:3 330:7	sensitizer 5:18
110:4 112:21	saying 116:23	scientist 31:20	331:4	296:21 304:21
113:3 118:7	127:23 173:9	151:14,14	sections 258:18	305:4 315:24
127:21 132:7	185:9 310:22	152:19	see 16:12 34:18	320:15 370:23
132:24 133:14	says 17:5 86:23	scientists 85:8	34:19 63:13	sensitizers 216:4
134:7 149:13	87:3,15 88:22	87:18 151:12	79:3 86:10	300:12,17
156:2 158:21	99:1 121:21	search 154:4	87:3 89:17	315:15,17,19
158:24 159:6	152:21 158:9	251:7 290:10	95:11 96:8	316:3,19,24
159:20 160:5	159:5 160:4,5	298:18 311:4	97:22 100:2	317:11 318:14
161:21 175:20	160:9 161:15	369:15	102:13 104:6	319:21 327:23
176:3,8,11	163:18 165:10	searched 74:14	104:11 109:12	sent 16:5
180:23 182:10	168:15 171:6	154:4 368:21	110:2 121:12	sentence 96:22
	<u>l</u>	<u> </u>	<u>l</u>	<u> </u>

				Page 416
07 6 20 00 16		102 22 106 10	251.10	
97:6,20 98:16	shane 3:23	192:23 196:10	351:18	slower 242:20
98:18,19 99:2	share 354:3	196:10 198:16	similarly 225:21	281:20
99:9,12 100:6	shaw 3:17	198:16,18,18	simply 35:16	small 250:13
101:15 103:1	sheet 6:15 203:9	200:3,3 207:20	90:13 126:19	253:18 254:9
104:14 177:22	305:15 373:6,9	207:20 209:22	126:21 152:6	302:5
178:14 179:4	373:12,15	209:22 216:10	318:13 355:23	smaller 357:15
180:1,8,20,20	375:11	216:10 217:15	single 355:20	smoker 213:13
181:10,15	sheets 134:24	217:15 225:15	357:22	smoking 213:3,4
259:6	299:6,24	225:16,23,23	sir 49:10 92:15	213:7,19
sentences 98:3,4	304:16 360:13	232:24 233:1,7	122:19 184:19	snips 276:6
98:24 99:10	shelby 118:16	233:7 234:23	260:23 273:15	socalled 199:19
101:17	shes 39:23	234:23 236:16	320:13	sold 55:9 205:21
separate 172:16	shockingly	236:16,22,22	sister 115:14	206:11 210:20
174:6	338:16	243:19,20	116:20 117:3	solvent 179:1,13
separately 34:12	short 356:23	252:22,22	117:18,22	179:14 353:5
series 13:6	357:3	286:12,13,22	118:4,11,14	solvents 177:24
357:23	shorthand 1:17	286:22 302:12	184:1 230:5,19	179:6,17
serve 43:9,19	372:13	302:12 309:16	288:5	son 215:4
44:23 51:15	shortly 20:17	309:16 312:20	sit 199:14 224:6	sorry 39:19 40:5
54:8 59:15	349:2	312:20 323:20	315:5 365:15	43:16 49:14
served 11:13	show 94:6 143:6	323:20 324:6,6	sites 250:16	59:1 75:19
45:3,7 55:1	217:24 311:21	326:5,5 328:19	sitting 35:1	95:14 116:21
serves 289:23	346:14 351:7	328:19 329:7,7	77:17 338:16	116:24 121:6
service 19:9	352:6	330:3,3,22,23	sixpage 365:8	149:19 150:6
65:3 70:3	showed 142:11	334:8,8 345:15	skadden 2:18,20	153:15 157:19
services 1:22	143:5 370:10	346:17,18	skatole 116:15	159:11 175:22
34:13 35:11	shower 7:12,12	347:9,9 349:5	skill 132:5 274:7	178:5 180:3
serving 46:2	32:21,21,24,24	349:5 351:19	skin 81:20 82:4	186:4 191:1
48:22	105:8,8 114:11	351:19 355:16	82:10,23 83:2	195:20 198:7
session 295:3	114:11,24,24	355:16 357:11	83:5 130:6,18	231:6 232:16
set 7:9 16:9	116:12,13	357:12	140:11 182:17	242:19,22
75:14 84:6	119:11,11	showers 345:16	214:11 215:1	248:12 266:16
93:6 109:8	124:6,6 135:23	side 178:12	215:11 219:18	270:23 273:1
127:14 139:18	135:24 136:16	sign 372:9 373:8	227:6,10	281:17 284:6
164:7 165:1	136:16 137:4,4	signed 37:24	229:10 231:2	287:9 290:4
191:5 211:16	137:11,12	41:6 109:3	231:12 272:21	294:7 295:11
263:12 267:22	140:17,17,21	significant 43:7	281:24 304:2,3	295:21 296:22
sets 86:4 121:9	140:21 142:17	110:21 230:13	304:4,5,6,21	298:11 300:19
290:19	142:17 143:1,1	significantly	307:13 311:10	311:13,23
setting 326:16	143:12,12,20	279:20	311:17 355:4	323:11 324:19
326:23	143:20 144:24	signing 373:10	skipping 180:19	324:24 359:10
seven 145:4	144:24 147:10	silicate 54:6,6	skips 249:8	359:11 363:4
148:16 152:16	147:10 148:11	similar 198:17	258:14	363:18 369:11
severe 278:3	148:11 168:19	250:15 257:13	slate 2:18	sort 128:24
284:22	168:19 170:20	291:11 296:8	slightly 40:24	145:12 160:22
severities 278:6	170:20 172:8,8	300:7 313:3	slow 116:22	229:11 291:24
seyfarth 3:17,20	192:11,11,23	330:22 351:9	125:9	302:6
		l	I	I

				Page 417
7.405.6	1		l	
sorted 182:6	163:22	168:7 202:9,13	statements 90:8	321:16
sorts 308:23	spectra 70:18	202:23 203:6	91:6 96:12	strike 13:23
sound 38:7 72:7	spectrablend	209:6 343:10	103:8 229:12	27:6 32:18
sounds 56:10	69:9,22 70:12	standpoint	296:16	36:20 37:4
source 76:24	spectraspray	264:11	states 1:1 97:14	38:5 42:7,19
91:20 92:3	69:10,23 70:13	stands 120:6	154:12 180:20	44:8 45:11
102:4 114:14	spelled 117:15	start 12:24	211:8 247:16	51:11 52:7
150:19 167:8	spend 43:1	37:22 101:14	254:6 261:21	58:4 66:6
275:13 290:8	spent 16:16 17:7	151:20 153:1	271:15 275:3	67:22 68:4
sources 5:8	18:10 43:23	242:23 341:14	291:1 292:18	69:19 76:22
29:11,14,18,21	73:22 74:2	345:8 364:19	stating 101:18	100:16 103:18
29:23 30:1	265:18	started 109:10	300:16	106:9 108:23
36:4,16 74:15	spleen 278:8	110:9 159:16	statistically	119:18 136:13
74:23 76:15,21	280:11	starting 345:6	253:19 254:10	148:21 153:10
77:4,23 85:12	spoke 350:7	starts 96:22	statutory 148:23	154:23 182:19
90:11,14,15	sporn 117:16	97:22 99:9	stay 206:12	184:8 187:13
91:8,14 92:7	spring 38:5	102:12 258:13	steering 2:11	204:14 208:23
92:21,23 93:9	squamous	303:23	steinemann 5:13	211:12 213:3
93:10 94:17,20	265:11	startup 43:3	96:4,12,21	227:22 228:1
148:24 149:15	st 51:6 53:3	state 1:17 9:22	97:4 98:15	244:1 255:18
194:7 237:23	346:4 347:13	25:16 41:8	99:8	258:5 265:5
304:16,17	stability 46:1	88:18 95:3	steinemanns	266:9 280:14
305:20	stable 230:8	98:18 135:3	97:21	290:23 318:10
south 2:14 3:13	stack 15:17	139:18 192:16	step 120:8,8	345:8
space 373:6	stages 121:1	259:22 262:23	steps 112:3	stromal 272:3
speak 71:24	stand 158:14	266:11 279:7	121:1,11,15,24	strong 239:5
72:2 100:12,15	210:13 335:7	281:3 287:6	122:2	241:6 260:5
339:22	366:19	288:23 289:24	steven 1:16	358:16
speaking 91:4	standard 6:6,8	290:7 328:11	372:12	stronger 306:23
93:4,5 129:5	110:20 113:1,6	346:3 373:5	stickers 346:7	strongly 220:18
130:8 154:6	114:5 128:3	stated 1:19	346:10	structures
326:2	137:15,17	183:20 184:2	stipulations	206:21
speaks 182:17	153:6 159:3,8	198:2 210:7	8:11	studied 234:19
specific 21:4	159:23 160:7	230:4 304:23	stogel 1:16	235:23 286:3
67:1 113:11	160:13 161:23	308:5 310:7	372:12	314:20
148:6,23	167:19,23	316:19 327:21	stomach 130:14	studies 21:20
150:19 155:22	168:10 169:23	334:7	265:12	23:10 43:8
195:17 197:6	171:12 172:18	statement 97:9	stones 65:21	64:10 106:22
209:13 216:24	175:9,11 187:9	100:20 101:5	stopped 169:14	107:2,6 109:18
350:18	191:16 231:19	174:17 202:18	straightforward	110:2 114:17
specifically	standards 5:22	212:20 214:9	365:9	114:19 118:10
90:22 101:2	6:5 86:4 88:15	215:3 217:1,3	street 1:18 2:4,9	126:21 128:10
110:1 173:7	88:18 105:10	253:7 255:22	2:14 3:13,18	128:10 133:13
264:3	144:15 157:14	269:4 287:14	· · · · · · · · · · · · · · · · · · ·	134:24 137:15
specifications			strengths 306:12	182:10 183:7
151:22 160:18	157:17 158:1,9	287:15 289:3,7		
	158:19 160:18	307:20 310:3	stress 310:9	185:2,5,9
specified 163:13	162:5 163:3,8	314:5	316:1,20 317:6	195:8,9,13,15
	•	•	•	-

				Page 418
	l		l	l
195:22 196:5,5	364:14	256:16 257:3	118:8 287:7	supplied 335:14
196:19,22	study 122:21	257:11,19	352:22	350:10
197:20 199:4	128:2,5,13,13	258:17 352:23	substantiate	support 8:2 50:2
216:14 217:13	128:14 133:11	353:23 354:4	195:10 199:4	70:3 159:1,7
217:24 218:5	144:10 187:4,7	355:11 357:24	substantiates	160:6 161:22
222:5 231:13	197:18 199:17	358:1,6,20	106:16	179:3 281:12
234:5 235:6,6	220:20 222:9	359:7,14 364:8	substantiating	289:1 307:20
235:19 246:22	235:3 250:1	styrene7 255:7	196:8 199:17	344:4
249:21 250:7	252:13 255:9	257:2,7,9	sufficient 239:4	supported
250:12,13,14	256:18 257:20	subcontracting	241:5 242:9,12	180:24
250:15 251:1	257:22 262:9	54:23	242:17 243:3	supporting
253:16,17	262:10,19,20	subgroup	244:20 245:2	243:4
254:9 255:5	266:1 271:2	253:20 254:11	257:6 260:4	supports 159:21
256:3,18	272:21 273:4	subject 30:13	324:8 326:6	161:19
261:16,19,23	274:14 278:21	112:13 373:10	353:12,18	suppose 129:2
262:2 264:16	280:1,4 283:13	subjects 67:11	357:22 358:12	146:23 189:3
264:22 265:3	284:10 285:4,7	145:13 287:22	358:15	201:5 336:16
265:13 266:5	287:22 288:1,9	submission 19:7	suggest 90:20	351:4
270:4,12 271:6	288:13,13,18	submissions	93:21	supposedly
271:20 273:10	292:22 293:10	58:2	suggested	331:18
273:11,13	293:12,14,18	submit 14:13	313:22 360:17	sure 32:9 40:7
274:5,10	294:2 295:15	318:6	370:4	54:1 78:12
276:23 277:5	295:16,16	submitted 14:12	suggestion	87:5 92:16
277:17 281:8	296:3 307:17	41:5 78:23	357:24	96:10 112:15
282:3,6,16	310:2 314:1,4	348:11 366:11	suggests 184:17	114:4,8 115:13
284:1 285:21	316:7 318:14	subscribed	220:18	116:4 129:14
287:13,18,19	319:18 320:6,6	375:18	suing 46:9	131:10 133:12
288:11,15	355:22 364:8	subsequent	suit 274:4	141:13,16
291:11,12,23	365:1	318:8	suite 2:9 3:3,13	150:6 159:14
291:24 296:10	stuff 73:14	subsequently	sum 73:24	161:19 173:11
301:7,8,10 303:16 306:10	78:12	328:3	summarizing	175:15,24
	styrax 118:14 352:23	substance 57:14	145:19	237:11 246:14
306:17 307:2		118:8 125:18	summary 252:8 260:9	247:6 254:2
307:20 308:2	styrene 6:19	130:4,5,6,9,10		256:9 284:9
310:2 313:8	116:19 142:13	130:23 132:13 167:1 172:16	sun 189:2	296:24 335:23
314:14,22 316:2,23	174:1,5,7,11 195:19 197:13	172:20 174:12	sunlight 189:4 supervision	336:6,20 341:20 351:10
316:2,23	193:19 197:13	247:17 306:5	372:18	366:17
318:20 319:5 319:17 320:10	237:17 244:4 244:13 245:6	321:24 327:2,2	supplement 18:17 224:21	suspected
321:4,6 322:11	244:13 243:6	375:10 substances 6:10	284:16	198:22 297:9 297:20 298:6
324:1,3 326:15	246:4,22 248:6	99:20,21		298:13 299:5
326:22,24	247:12 248:6 249:21 250:3	110:16 128:20	supplemental 7:8 75:13	298:13 299:3 sustain 356:15
326:22,24 327:4 355:1,5	251:2 252:14	129:12 132:11	supplemented	sustain 336:13 sustained 356:9
· · · · · · · · · · · · · · · · · · ·	251:2 232:14	193:5 210:15	33:17	swallow 227:10
355:8,20,21 356:22,22	254:17 255:5	327:15 360:14	supplements	257:15
357:2 358:13	254.17 255.3 255:11 256:3	substantial	342:5	swallowed
337.2330.13	433.11 430.3	substantiai —	J74.J	SW allow Cu

214:12				Page 419
	29:12 37:16	224.1 2 225.14	tell 10:19 17:4	47.14 22 40.0
swear 9:7	49:17 71:24	334:1,2 335:14 335:17 337:9	19:4 20:8 23:7	47:14,23 48:8 48:11,14 50:12
sweat 9.7 sweeteners	72:3,7,12	355:11 356:7	23:24 25:8,24	78:3,4 82:4
64:12	91:13 94:5	356:14	27:3 29:13	94:3,23 96:11
-	98:11 101:22			126:6 132:15
sworn 1:15 9:8		tales 325:18	47:2 55:11	
9:16 372:5	101:24 103:18	talcum 1:5 32:5 32:14 38:14	57:2 71:22	132:19 170:11
375:18	103:20 104:20		90:7 137:7	170:14 223:13 303:14 321:2
sync 276:4	110:24 112:3	41:24 42:4	139:21,23	
synonym 171:16	120:17 137:17	65:10,14,17	166:20 178:24	334:5,13
synonyms 170:2	144:4,9 147:24	66:19,20,24	201:20 209:24	335:22 336:4
synthetic 6:10	150:22 156:19	67:8,24 68:10	223:24 248:6	336:13 341:13
174:11	163:2 166:7	68:13,16,19	324:21 333:23	344:17 361:6
system 155:21	168:24 172:11	69:6,16,21,23	338:13 341:15	372:6
202:10 206:1	173:4 174:21	70:22 71:9,17	telling 159:17	testing 79:13
207:3 238:8	177:16 185:13	75:8 79:15,20	170:15 221:14	135:18,21
240:3 250:10	186:24 189:13	79:23 81:6,14	ten 18:5,13 72:6	138:2 207:16
272:14 299:15	191:13,22	105:13 134:19	164:13 202:4	teva 45:18
300:2	203:2 216:2	137:16 335:5	338:18	texas 1:17,18
systemic 225:5	218:7,18	343:15	term 27:7 145:8	3:4 43:20 52:3
312:15	231:10 245:13	talk 49:23 238:5	146:8,21	54:4,9 338:10
	246:10 251:6	250:6 254:17	194:10,11	text 90:13 92:6
	254:2 256:11	talked 37:15	342:19 356:23	93:8
t 4:12 5:2 6:2 7:2	270:8,15	182:13 195:19	357:3,4 361:7	textbook 22:20
374:1	271:13 272:22	204:3,6,15	terminology	textbooks 67:17
table 140:6,13	275:18,20	244:11 301:14	342:15	77:7
140:18,19	288:5,10	302:14 337:22	terms 35:12	thank 20:13
147:4,10,14,14	290:18 292:10	338:7 356:3	38:22 44:13,17	86:1 104:21
148:1,1,11,22	294:13 318:3	364:13	52:12 58:3	173:16 177:5
148:22 150:3	340:4 352:12	talking 22:17	73:8 74:3	239:18 249:6
150:20 156:20	365:7	92:1,2 102:24	100:12 123:10	304:9 319:20
168:24 169:6	taken 1:15 80:3	113:11 138:10	143:10 153:21	333:2 339:4,22
173:6 175:2	102:19 189:5	255:4 256:19	165:7 208:2	340:5 346:11
185:16 186:5	247:21 357:16	273:12 321:3	261:10 313:17	351:17 363:5
193:15 194:22	talc 3:10 13:19	359:9	328:15 341:16	371:6,8
194:22 195:11	14:5,9 16:17	taste 64:11	342:12 357:14	thats 12:2,18
195:12 199:6,6	17:8 32:20	taught 146:7	358:23	17:23 18:2
201:8 203:11	33:9 39:5,9,15	tbutyl 140:22	test 137:18	21:9,11 28:3
209:2 218:8,24	41:21 42:1	team 57:13	291:5	30:18 37:6
226:9 233:15	63:9 65:22	technical 55:1	tested 256:16	41:10 46:11
234:24 279:22	69:10,13 78:22	65:3 70:2	testified 9:16	49:23 50:6
311:16 323:6	106:17 108:8	111:9 275:16	56:12 361:21	54:6 55:15,18
tables 93:15	124:5 144:14	342:22 365:14	testify 17:18	55:21 60:18
1 () 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	200:6 212:6	technologies	testifying 45:23	62:19 63:2
162:11 199:24		4:16 42:14,22	60:5	65:8 68:3
tablets 71:2	220:5,6,15,16	· ·		
tablets 71:2 356:11	306:15,19,23	44:3,10,18	testimony 4:4	70:21 72:14
tablets 71:2		· ·		

				Page 420
06.0 22 00.11	245.16.246.20	116.14 110.0	255.16.205.22	276.6 292.17
86:8,23 88:11	245:16 246:20	116:14 118:8	255:16 295:22	276:6 283:17
88:22 97:11,17	246:20 247:23	121:1 123:1	296:1 302:3,18	289:20,22
97:17 99:15	256:18 257:1	124:12 132:4	314:9,9 366:7	291:16 296:15
106:7,7,14	257:18 259:5	149:10 153:6	things 28:3	297:15 298:8
108:11,15,18	259:13,15	158:11 164:13	29:20,21 36:7	298:12,17
111:7,7,18,23	260:6 261:24	184:16 185:9	77:7 81:22	304:24 310:21
115:21 117:1	263:7 264:4	185:17 187:11	86:13 135:1	312:3 313:6
119:10,10	265:18 266:18	198:17 205:2	145:11 146:11	314:18 316:14
121:6,21 123:2	267:8 268:11	205:19 209:17	146:19 147:20	318:2,5,6,7
124:23 125:4	269:8 271:18	210:22 211:16	152:18 153:8	319:6 325:20
125:19 128:11	272:7,9,12,13	213:18 218:21	179:15 187:11	328:12 329:21
128:24 133:1	273:13 274:6	242:7 244:24	214:15 231:10	330:4 336:4
140:15 144:16	279:2,22	259:23 260:17	285:24 289:22	339:3 352:17
146:2 151:11	282:11 288:20	268:14 272:21	think 12:20	358:8 365:5
156:10 158:23	289:21,21	277:21,22	14:14 16:6	368:14 369:9
159:5 160:9,9	291:9,15 292:9	303:24 308:23	17:17 18:4	369:20
161:15 162:6	296:6 303:22	312:16 323:9	19:6 24:21	thinking 22:7
163:1,18 165:3	308:3,4 310:1	327:7 330:20	30:18 33:13	369:12
165:4,18 166:7	310:18,21	336:8 350:2,2	34:19 35:10	thiola 65:20
168:15 169:9	312:4,22 313:4	356:1 366:16	36:6 40:14	66:3,11 68:6,8
170:5,15	315:20 316:15	367:11	41:3,3 45:14	68:23 69:7
171:18 173:23	322:1,20,22	theridian 4:16	47:5 48:10	205:12
174:20 175:7	325:14 331:11	42:14,22 44:3	50:1 55:15	third 97:6
179:21 181:20	332:13,23	44:10,17	56:15 59:6	210:22 242:1
182:5 183:15	335:16,20	theyll 357:6	60:21 75:6,11	290:24 350:5
184:14 186:9	336:3,11 337:3	theyre 60:3,4	76:16,21 77:5	thirty 373:16
186:17 188:7	337:12 339:3	64:20 77:17	79:2,5,17 88:9	thomas 75:6
188:10,17	340:13,16,17	112:18,20	91:10,12 98:9	109:10 337:23
190:11 195:2,4	342:23 343:1	137:19 138:14	103:6 112:24	thompson 2:3,6
196:1,12,17	344:12 347:1,6	147:22 164:14	122:20 123:9	36:24 37:2
198:10 200:11	348:10 350:13	172:21 200:12	130:10 132:17	38:10 40:17
203:22 209:19	360:7,18,19	205:22 214:11	135:15 142:14	63:8 337:16,18
211:20 212:1,9	361:1 362:9	214:12,13	144:8 145:12	thorough
212:18,20	364:14 367:14	222:5 266:7	146:2 149:10	277:24
214:22 217:1	367:15,24	294:1 298:16	149:12 157:2	thought 15:16
	·	303:20 314:11	157:12,12,16	
218:14,22	369:11,20,23		, ,	45:12 178:7
219:21 220:3	theory 106:16 195:10 196:8	331:16,17	166:11 167:6	191:1 295:1
223:12,20		342:19,19	180:18 189:9	370:21
224:23 226:2	199:5	363:13,19	190:21 193:8	thousands 357:8
226:12,13	therapeutics	369:9	194:12 196:12	three 19:6 60:21
228:21 230:10	60:3	theyve 147:6	205:13 207:14	99:10 121:5
230:17,22,22	theres 17:20	205:20 209:6	215:6,16 216:1	148:23 163:11
230:24 231:1,7	52:14 64:19	245:8	220:17 233:2	172:23 236:16
231:11 237:1	78:16 84:3	thing 79:7	246:5 250:17	236:21 242:3,7
239:1,15 240:6	93:22 95:4,7	148:10 154:5	254:16 261:7	260:17,20
240:8 241:1	106:21 110:17	171:24 233:5	261:14 266:18	272:23 280:8
243:22 244:15	112:2,22	247:10 254:16	268:13 275:15	280:13 285:21
	<u> </u>	<u> </u>	<u> </u>	I

				Page 421
214 10 21	254.00	221.0	1 26 14	046 01 056 0
314:19,21	354:23	231:9	track 36:14	246:21 256:2
341:23 348:12	tissue 308:21	topically 227:5	tract 81:8,16	261:18 262:1
352:17	321:13	topics 40:16	trade 99:12	264:15 265:2
threequarters	tissues 101:18	total 73:21	147:19 301:18	270:3 276:22
42:24 43:22	title 21:19 79:3	99:24 204:2	344:3 345:10	347:7 372:6
threshold	79:8 146:3	255:16 328:13	363:13	truncated 252:6
125:22 204:7	149:5 151:4,10	totality 84:9	traditionally	trust 247:8
301:22 302:2,6	153:13,17,23	111:11 127:5	102:12 103:2	264:6
357:21	154:9,13,18	138:10 193:10	104:9	try 17:15 20:10
thresholded	240:6 261:3,5	tox 56:4 133:11	training 56:1,8	43:14 63:21
125:21 204:10	261:5 335:1,7	133:13 288:15	56:10,13,20	73:3 87:10
221:15	titled 23:2	356:22	57:13,18 62:17	109:14 110:21
thresholds	281:22 352:9	toxic 99:20	122:10,15	116:21 131:4
301:12	toaff 117:15,15	110:15 125:17	transcript 80:3	135:18 141:20
thumb 4:21	tobacco 97:15	193:4,11	80:16 295:5	152:9 187:16
23:17 24:14	today 11:4 12:3	210:14	372:9,17	189:19 208:4
265:20	12:8,12,16	toxicant 197:14	373:17,19	227:17 235:12
time 9:5 10:16	14:13 15:9,12	toxicity 4:20	transcription	251:10 256:1
13:13 14:2,10	18:12,15 21:13	23:3,10 57:7	375:7	281:19 324:16
16:16 17:7	22:5,17 23:13	81:12 105:15	transcripts	367:23
18:10 34:20	24:16 33:18	183:22 192:12	79:23	trying 120:6
37:12,20 38:24	35:2 39:22	217:24 284:22	transdermal	150:24
39:11,12 40:1	40:15 58:14	286:3,8 328:8	129:16	tsca 167:10
40:12,13 42:16	61:15 83:17	343:14	transfer 219:17	tubal 265:6
42:21 43:2,23	159:16 200:15	toxicological	transformations	277:9
44:9,12 45:2,6	204:16 311:7	211:19	118:21 285:20	tube 277:14
66:15 73:7,14	312:6 329:22	toxicologist	transparency	tubular 262:3,5
73:21 74:2,3,7	334:5 335:22	55:17,23 57:16	175:13,19	tucker 2:13 3:12
98:12 104:23	336:8 341:13	toxicology 30:11	176:2,7 186:11	tuckerellis 2:16
105:4 141:10	344:16 350:8	55:20 56:2,14	190:14,18	3:14
141:18 143:1,7	354:13 362:3	56:24 57:12	327:7	tumor 281:13
143:19,23	365:11,24	77:6,14 110:2	travel 82:19	tumorigenic
189:17,24	366:12,20	117:12,19	treat 62:13	119:7
192:2,7 206:16	370:10	123:2 125:15	treated 272:4	tumorpromoti
245:19,23	todays 9:4	130:20 145:8	tremendous	281:14,23
247:19 257:5	told 41:4 44:23	145:10 146:6	110:17	tumors 212:12
294:17,22	49:2 70:23	146:18 147:17	trend 279:17	262:4 265:5,6
330:23 333:7	78:6 131:22	147:21 161:12	trial 35:5 48:11	265:8,17
333:11 336:2	tongue 231:1	192:18,24	48:12 79:23	271:22 273:4
337:4 340:4	top 13:11 18:23	193:2,16 194:9	tried 30:4 73:17	277:16 278:4,5
348:20 353:12	27:1 158:8	194:10 197:21	103:13 111:10	278:14 293:2
353:15 365:6	254:5 355:13	278:2 284:15	149:15 324:5	turn 53:2 95:6
366:5 371:12	topic 40:7 63:10	288:18 327:9	trigger 203:14	95:10 164:11
timeframe 37:7	63:21 65:6,10	358:19	true 169:12	346:20 367:22
times 60:22	72:9,16	toxicologys	170:5 195:2	turning 290:24
63:13 205:21	topical 140:10	359:5	202:16 212:20	turns 273:18
233:3 329:22	140:19 182:17	toxnet 230:10	228:21 246:20	368:15
			l .	

_				Page 422
. 254.5	l 1/2		12 22 24 22	. 1140 12
twice 354:5	ultimately	5:14	use 12:22 24:22	vaginal 140:12
two 19:6 20:22	219:19	unethical 222:5	27:7 66:23	140:15,20,23
39:2 45:15	un 117:3	282:10 285:8	70:17 109:5	182:9,18
70:4 73:16	unable 124:8	321:7 364:14	112:5 113:2	185:10 204:24
77:6 124:2	126:11 200:18	unfair 264:5	146:3 147:19	205:1,3,7
140:22 145:11	302:17 304:22	unfounded	150:16,18	219:24 293:14
145:12 146:3	309:18	84:18	151:15 152:7	313:12,14
146:10,19	unaware 103:5	uniform 355:17	159:1,7,22	314:7,17,24
179:14 201:14	unclear 113:23	uniformity	160:6 161:19	315:1,11,13
220:18 237:22	underlying 4:22	137:15 355:7	161:22 162:24	355:2,4
257:2 279:23	24:3 144:7	355:15	163:19 165:1,7	vaginally 139:8
312:16 325:15	197:20 288:1	uniformly	165:11,13,16	139:14 269:13
332:6 343:7	301:7 305:15	137:19	169:7 174:11	vaginas 222:7
357:6,13	305:21 306:2	union 3:15	174:13,18	227:12 235:23
368:20	320:2,8 326:1	unique 289:22	181:16 182:2	vaginosis 205:8
twothirds 42:23	underneath	unit 350:15	182:16 187:2,9	205:8,15
43:22	95:15 97:5	united 1:1	193:6 199:22	vague 113:22
twoyear 280:4	understand	154:12	200:2 229:1	valid 117:17
tylenol 70:12,14	10:18,20 28:20	units 124:12	261:19 264:16	126:22 128:6
type 52:7 60:11	32:9 40:4 54:2	350:9	270:5,12 271:7	131:3,11
140:19 154:3	55:7 56:17	university 51:2	276:23 277:18	222:16
212:16,17	59:12,13 61:14	51:5 338:10	289:2 300:10	validated 195:7
214:21 216:6	62:7 64:11	unknown	311:11,22	285:16
224:2 246:18	87:23 94:3,24	201:11	312:12,14	values 203:13
246:19 261:20	112:15 113:23	unnecessarily	316:3 331:13	vanillin 52:19
264:17 266:1	133:5,17	261:9	331:16 344:4	varied 320:5
270:5,13 271:8	138:17,18,20	unnecessary	362:14	varies 44:14,20
276:24 283:14	138:21 141:13	187:1	useful 345:21	130:9 301:5
289:13 300:7	159:18 172:3	unpleasant	user 55:11	309:9 319:24
309:13 360:4	195:6 199:2	52:21	users 228:11	various 63:13
361:17	302:4 332:5	unsigned 41:5	usp 272:17	90:5 109:15
typed 95:23	333:18 336:6	unstable 253:19	usually 287:19	151:8 198:8
types 10:9 45:19	347:22 350:10	254:10	302:4 313:14	varnishes
285:24 307:2	350:17 352:1	update 102:7	314:10 355:20	233:22
342:9	understanding	173:3 364:20	uterus 280:11	vary 302:7
typical 14:21	33:5 58:22	366:8	utility 306:16	306:17
231:19 356:22	59:11 60:23	updated 20:22	utilized 225:23	vaseline 306:10
typically 130:1	80:19,22 85:7	358:7	342:18 348:19	verbatim 99:2
360:21	162:3 179:12	updates 20:14		101:3
typo 369:20	186:9,17 207:9	upper 81:7,16	V	verbiage 198:17
tze 64:19	310:1 333:23	uptodate 22:11	v 47:18	verified 369:4
	understood 11:1	26:17	vagina 81:15	verify 137:18
U	147:23 190:1	urinary 280:12	182:12 217:4,5	247:10
u 180:1,13,14	237:10 309:2	usage 157:14	220:17 222:23	version 41:13
uhhuh 17:13	undertake	158:19 160:19	231:17 313:3	versus 45:16,18
169:2 221:5	345:24	160:22 301:15	313:17,24	videographer
292:20	undisclosed	325:11	314:21 328:3	3:23 9:2
	<u> </u>	<u> </u>	<u> </u>	<u> </u>

				Page 423
104-22 105-2	1 202-24-204-24		44.5.50.10	04.5 10 10
104:22 105:2	282:24 294:24	web 305:18	44:5 58:12	94:5,18,18
192:1,5 245:18	295:13 296:1	website 76:18	wifes 34:2	96:3,3 97:11
245:22 294:16	298:18,19	86:3 89:5	wikipedia 5:16	97:11 98:4,5,9
294:20 333:6	336:5,21 351:7	102:19 103:24	100:7,20 101:5	98:9 103:10,10
333:10 371:9	352:6 353:20	104:7 109:22	102:3,7 103:9	135:16 172:11
videotaped 1:13	361:2 364:17	110:3 154:2	371:1	218:18 242:11
viewed 12:14	365:1,7 366:3	158:12 161:3	willing 191:12	246:10 266:18
virtually 255:9	367:10,23	181:8 211:8	283:2	367:11 370:24
vitae 5:5 26:9,17	wanted 38:23	239:24 299:12	windows 189:4	370:24
50:21	54:20 78:10	369:2	wish 73:13	wordbyword
vitamin 52:19	206:12	websites 90:5,9	withdraw 121:7	100:13
vitro 6:13	wants 102:6	91:6,14 109:21	128:19 136:14	wordforword
106:22 109:17	326:10	111:3,10 299:9	158:18 165:24	98:12
118:10 196:5	warner 51:18	304:17	176:18 249:22	words 89:20
196:18 197:16	52:24 53:13	wed 263:16	witness 1:14 8:5	91:16 95:14,22
218:5 235:6	warnerjenkin	wednesday	9:7,8 10:1	97:16 101:20
285:22 287:12	51:19,20,23	13:12	27:18 30:23	101:21 140:10
291:24 328:7	52:15 53:1,2,4	week 20:22	43:13,16 49:12	145:24 146:3
vivo 106:22	69:8,17 70:19	354:5	50:3,7 72:23	165:9,12,13
109:18 114:18	warnerjenkin	weeks 272:20	72:24 73:2	172:23 200:11
118:10 197:16	70:9	356:24	80:8,12 87:9	355:10
218:5 287:13	washington 2:19	weiner 23:3	92:5 116:24	work 13:19
voice 43:15	3:19 51:5	welcome 25:3	120:15 138:16	14:11 19:11
72:18 324:17	wasnt 53:21	140:2 196:2	149:21 166:16	33:15 42:3,4,9
volume 23:4	83:4,9 92:19	197:2 225:3	177:7 191:24	42:16 44:19
246:6,14	107:19 108:4	339:5 365:10	228:3 242:22	50:3,7 51:15
247:13 248:8	111:10 123:7	wellknown	245:15 258:24	52:12 64:13
269:20 284:15	124:9 125:4	64:21	281:17,21	110:18 193:19
	126:4 136:22	went 37:14	294:7,15 295:8	336:24 337:7
W	137:5,20 138:7	126:24 290:9	298:11 304:7	338:20 345:24
w 2:19 3:18	199:11 209:24	weve 33:17	323:13 324:19	360:10 362:14
wait 240:24	211:10 226:2	34:17 80:10	338:24 339:5	362:22 367:9
walked 366:1	232:17 260:24	172:18 189:6,8	344:8 372:5,6	368:12
want 20:9 58:1	303:6,7 320:9	189:17 195:19	372:8 373:1	worked 51:18
72:10 98:11	344:1 345:22	218:4 260:7	witt 118:16	52:2 53:4 57:4
140:1 152:9	361:21	275:24 288:16	woman 201:8,21	63:3 68:15
166:5 169:22	water 129:2	302:14 322:9	225:22 233:6	70:11,14 292:3
182:15 186:24	way 69:20 76:11	334:4 364:13	women 200:1	342:1,4,6
189:15 206:17	83:22 111:13	364:20	205:5 233:21	working 37:22
222:21 224:6	112:8 136:1	whats 22:9 32:1	286:21 302:22	43:23 46:10,13
224:24 225:2	154:21 228:4	36:10 77:21	357:12,15	48:6 49:3
227:16 234:22	229:6 264:20	296:22,23	wondering	52:22 57:10,15
235:3 237:7	267:9 294:3	344:22 358:5,9	341:3	247:18 261:22
238:5 241:14	295:17 304:9	361:7	wont 40:14	264:21 277:3
241:19,23	334:24 336:5	whichever	336:6	337:19
265:22 272:22	336:23 338:17	329:19	word 92:5,6	workplace
273:20 282:22	ways 112:22	wife 34:1,13	93:16,16 94:5	233:22
-				

				Page 424
111500	107 10 100 10		100 11 100 00	1 222 6 220 5
world 153:2	127:18 129:19	309:18 311:8	130:11 132:20	332:6 338:5
283:18 284:17	132:20 136:5	311:19 315:4	133:12,13	346:1 361:20
356:10	140:3 142:4,21	315:10 317:15	138:9 141:14	361:22 362:2
worlds 51:21	151:6 153:19	322:7,15,22	145:12,15	$\overline{\mathbf{z}}$
wouldnt 175:11	155:7 156:10	323:24 324:5	146:10 147:16	
215:20 219:9	157:13 158:23	324:11 325:4	151:1 153:15	zeiger 118:16
220:22 228:23	159:19 161:1,4	327:11 328:22	160:8 165:9,13	zellers 2:13,16
283:20 294:5,8	166:14,17	333:5 334:19	177:11 184:20	4:5 9:9,21
355:24	167:21 171:18	335:11 337:12	184:21 196:2	11:22 13:5
write 58:1	171:23 172:21	346:6 349:8,9	197:2 198:7,17	14:16,17 15:21
116:22	173:23 175:4	354:4 364:13	208:13 209:18	16:11,14 18:6
writings 65:13	176:6 177:3,13	year 18:11 44:16	213:21 224:17	18:20 21:3,6
written 65:5,9	177:19 178:6,8	44:20,20 47:3	225:3 235:5,18	21:17 22:21
66:19 96:3	178:10,13,18	59:18 201:22	237:12 238:7	23:1,20 25:5
wrong 90:12	179:21 180:5,7	247:13,24	247:8 255:14	25:22 26:4,7
91:3 92:4 93:7	181:20 185:3	248:2,4	256:10,19	26:12,20 27:14
94:4,15,20	185:18 186:6	years 46:19 64:4	260:19,19	27:18,22 28:18
103:7 295:7	187:23 189:19	71:7 142:12	270:20 274:13	29:7 32:11
297:16 369:8	191:10 194:3	202:4,4 206:16	278:20 282:2	33:6 36:13,19
wrote 166:6	200:5 205:19	265:18 301:9	290:11 304:8	39:21 41:14
wunderlich 3:12	206:8 208:3,18	338:18 357:6	305:14 310:18	43:17 48:21
3:14 72:17,24	209:5,15,17	yep 98:20 168:5	311:6 315:5,24	49:18 50:14
wyatt 2:18,20	212:18 213:18	241:22 271:16	317:24 318:18	53:23 56:6,11
wyatts 349:16	216:1 218:13	290:22 321:21	319:2,7,18	58:10 59:3
	219:3 226:21	yesterday 80:5	322:11 327:14	61:6,17 62:1,9
X	227:8 232:20	yielded 250:14	331:23 339:5	67:9,15 68:21
x 4:2,12 5:2 6:2	235:18 236:2	york 2:19	355:10 365:9	69:4 72:1,4
7:2	238:15 240:20	youd 16:24 38:4	youve 10:4	73:6,19 76:1
xylene 291:4	241:11 244:6	119:12 166:19	13:19 16:16	78:2,6,14
292:8,18,24	244:12,15	191:8 267:6	45:15 47:9	80:13 82:3,9
293:8 295:15	246:14,20	268:1	52:7,12 55:13	83:11 84:15
296:3,9	255:3 260:17	youll 34:19	56:22 62:20	85:4,23 86:2,9
Y	262:10,20	303:10,23	68:8 70:23	86:17,18 87:5
yeah 15:7 18:4	266:7 268:4,22	346:20 347:20	73:22 89:10	87:8,12 88:2
28:14 39:22	268:23 269:8	youre 17:11	111:18 126:2	88:13 89:9
47:8,22 49:15	269:19 272:9	19:24 22:17	127:15 165:4	91:2,11,23
53:1 58:15	272:12 273:16	25:3,8,10,17	183:12 189:17	92:13,16 93:3
70:21 74:6	274:2,24	26:2 27:24	193:24,24	94:2,10,14
75:23 76:5	275:24 276:2,5	30:7 32:3	194:1 196:23	95:5,9,20,21
78:19 82:8	277:2,16	37:18 58:14	199:24 204:19	96:17 98:10,22
86:23 88:17,24	278:24 281:21	62:10 83:12,16	216:9 223:7	99:6,17 100:10
89:2 93:19	282:4 287:1	88:9 90:20	233:2 248:17	100:18,23
	289:11 294:8	92:17 93:20	252:1 267:10	101:1,13 102:2
95:1,23 97:16	295:20 300:9	102:24 108:16	269:8 276:6,6	103:3,4,17,23
99:15 102:6,9 102:15 104:19	302:24 303:13	109:1 112:5,21	293:15 311:9	104:20 105:5
106:20 122:21	303:20 305:10	115:20 116:23	313:6,19	106:1,8 107:1
100.20 122:21	306:9 307:11	129:14 130:8	327:22,23,24	107:15 108:6
'		<u> </u>	<u> </u>	<u> </u>

				Page 425
111.16 112.5	102.0 102.12	274.12.276.2	204-2 272-1	190.22 102.2 2
111:16 113:5	192:8 193:13	274:12 276:3	204:2 273:1	189:22 192:2,3
113:13,16	194:8 195:3	277:4 278:17	330:16,20	192:22 236:8
114:3,21 115:8	196:6,14,20	280:14,16,20	355:11,11	236:15 258:3
117:4 118:1	197:17 199:13	281:2 282:13	000 272:19,20	266:14 313:5
120:1,10,20	200:23 201:6	282:20,24	286:6 355:12	372:13
121:22 122:8	201:18 202:2,7	283:6,10,11,21	01 294:17,18	120 5:19
122:13 123:4	203:1,5 204:13	284:8 285:1	04 333:7,8	127 284:16
123:15,21	207:2,8,11	286:9,18 287:4	05 245:21,23	12th 40:23
125:11 126:8	208:6,12,20	288:21 290:17	330:16,20	13 4:16 5:13
127:7,12 128:8	212:21 213:16	292:5 294:9,13	355:11	96:16,19 209:2
128:18 129:10	214:16 215:8	294:23 295:12	07 1:16 9:5	14 5:16 100:17
131:9,17 133:3	215:14 216:5	295:23 297:12	105:1,4	100:19,22,23
133:19 134:16	216:17 217:19	298:1,14 299:1	07962 3:8	101:8 140:6,13
135:2 136:7	218:6 219:12	300:6,23		141 135:4
137:1 138:15	221:1,9,16	301:21 302:8	1	142 355:24
138:23 141:1,8	222:13 223:1,9	302:19 303:2,8	1 4:15 11:9,10	1440 2:19
141:15 142:15	223:14,23	303:15 305:5	11:24 121:16	15 5:17 29:9
142:22 143:8	224:5 225:9,20	307:1,8,18	124:9 151:3	72:12 103:18
143:16 145:14	226:4,9,12,14	308:8 309:5,11	162:12 164:14	103:21,22
146:12 147:1	227:3,13,21	309:21 311:2	192:4,7 202:20	104:1,7 147:10
149:4,23 150:8	228:6,16	312:5,7 313:1	203:18,21	147:14 148:11
152:2 153:10	229:15 230:1	314:3 315:14	204:2 243:15	148:22 162:11
153:12 154:16	231:3 232:9	317:8,18	243:20 273:1	175:2 329:22
155:9,16 157:5	233:14 234:4	318:10,12,23	280:8 284:16	150 273:1
157:22 158:7	234:11,21	319:4,9,13,19	286:6 292:14	1510 3:3
158:16 159:13	235:20 238:4	320:22 321:17	355:12 375:6	152 167:16
160:11 161:9	239:10,17,19	322:10 323:1	10 5:8 27:15	155 5:20
161:16 163:6	240:22 243:7	323:15 324:20	29:6,8,11,13	157 5:22
165:23 166:22	245:4,13,16	326:14,21	29:24 44:21	16 5:19 8:9 29:9
167:5,12,17	246:1,15 247:5	328:14 329:1	72:7 74:23	120:9,11 121:4
168:23 170:4	248:3,11	329:12 330:6	104:23,24	121:9,13
171:1,10 172:4	249:11 250:19	331:3,22 332:8	164:14 168:11	194:22 195:12
172:12,15	251:8,19,22	332:22 333:1	331:4	199:6,24 201:8
173:11,14,18	252:7,11,18	339:6 340:18	100 3:13 5:16	234:24 288:8
175:23 176:10	253:4,15 254:1	340:21,24	42:15 306:13	160 288:8
176:16 177:3	254:19,22	342:24 345:11	101 276:1,2	162738 1:6
177:10 181:6	255:18,20	346:9 347:16	103 5:17 23:4	163 6:5 164:11
181:12,14,21	256:8 258:7,16	348:8,22 351:3	272:20	164:17
182:19,21	259:1,12	353:24 359:1	11 4:15 5:9 8:9	164 164:20
183:4,14 184:8	260:14 261:1	359:19 360:23	81:4 85:22,24	168:12
184:12,23	262:22 263:9	363:12 364:6	105:1,4 186:4	167 6:6
186:3,18	263:21 264:1,8	364:16 365:13	186:5 192:20	17 5:20 29:9
187:13,15	264:14 265:1	370:18 371:5	323:6 368:15	155:8,10
188:1,16,23	267:12,19	zero 257:16	114 248:19	279:22
189:11,19	268:17 269:16		1170 2:9	171 6:8
190:1,2,22	270:10,19	0	12 5:11 47:6	173 6:9
191:14,22	271:12 273:19	0 202:20 203:21	89:6,7,18	175 73:15
171111,22	2,1.12 2,3.17			

				Page 426
214.10.21	20.6.6.44.22	266.15.201.2	271.14.294.16	22 7.9 102.10 17
314:19,21 368:14	20 6:6 44:22 72:13 144:23	266:15 281:3	271:14 284:16 290 7:6	32 7:8 102:10,17
308:14 177 6:12	148:3 167:11	287:5,11		104:4,17 346:12,15
177 6:12 17th 354:8		294:19,22 213 2:15	29th 291:5 2a 243:12 358:8	348:5
18 4:17 5:22	167:13,18,22 286:4 329:23	213 2:13 218 2:4		320 258:14
95:10,11 96:2	372:13 375:19	216 2:4 22 4:20 6:9	358:9,10 2b 198:20	33 7:10 349:12
98:5 145:4	2000 66:13 68:7	115:24 116:8	240:23 242:4,7	349:14 351:15
148:3,18 150:2	68:24	116:15 144:19	243:8 244:14	368:13 370:1
157:21,23,24	20004 3:19	173:17,19	244:16 245:9	333 4:6
158:9 160:24	20004 3.19 20005 2:19	174:4 218:24	276:15,17,20	3377 1:23
173:6 185:15	20003 2.19 2002 116:17	226:9	2nd 15:23	339 4:7
333:9,11	248:13	23 4:21 6:12	Ziiu 13.23	34 7:12 192:21
18th 20:12	2003 51:9	140:18 177:15	3	351:5,8,9,13
365:23	117:20	177:17 178:9	3 4:17 18:18,19	351:16,18
19 6:5 7:9 148:3	2005 22:10	179:3 180:6	18:21 19:4,22	368:13 370:1
163:4,5 164:12	181:17	239 6:16	20:3 98:14,16	341 4:8
168:11 185:16	2006 118:22	23rd 48:2	99:8 121:18	346 7:8
272:23 346:22	284:15	24 6:15 203:3,4	160:4 192:6	349 7:10
1950s 301:9	2007 23:6	203:6,12	198:23 208:21	35 7:13 192:17
1978 247:18	2007 25:0 2008 96:5	230:16	238:17 240:4	192:19 351:11
1979 117:16	352:19	245 6:18	240:13 241:2	352:4,8,9
1987 115:19	200page 367:10	25 4:23 6:16	241:21 242:15	353:21 354:3
117:24 118:6	2010 47:15	44:12,16 239:9	245:21,23	350 3:8
118:13 247:18	2010 47:13 2011 47:6	239:12,16,17	256:13 259:3,7	351 7:12
1989 117:12	2014 116:6	240:3 260:16	259:13,23	352 7:13
118:17	117:21 142:14	284:15	260:9 263:5,7	36 269:19,20
1991 51:6	352:19 354:7	250 280:8	266:22 267:5	304:3
1992 53:5	2018 5:21 13:12	2562550 3:14	269:3,4 271:14	36104 2:4
1994 247:18	14:3 15:2,6	258 6:20	272:19 274:21	363 269:22
248:7	17:8 37:5 38:7	26 5:5,6 6:18	290:3 291:3	364 4:5
1995 53:5 66:13	40:23 41:1	233:16 245:24	292:12,13,14	365 2:9
68:7,24 284:18	80:4	246:3,7 247:2	292:19,24	367 4:6,8
1999 310:5	2019 1:11,16 9:4	247:16 248:13	293:9 295:21	37 186:5
1st 15:2,6,23	16:1 18:11	248:23 249:8	295:24 364:21	370 1:23
	372:14	249:16 251:15	364:24 367:23	3717008 2:20
2	202 2:20 3:19	256:13 335:2	368:7,9	376 375:6
2 4:16 13:4,8,22	268:12	263 6:21	30 7:5 72:7	38 304:3
34:17 37:11	203 6:15	267 275:17	275:22,23	39 209:10
86:17 95:13,15	207 53:2	2670058 3:9	295:7 311:15	3910197 3:4
95:15 96:2	20plus 71:7	269 6:23	373:16	
97:4 99:13	21 4:19 6:8	27 6:20 100:1,5	300 35:10	4
105:3 121:17	149:5 151:4,10	101:5 258:6,8	307 258:13	4 1:11 4:19
180:4 203:11	153:13,17,23	258:13 296:14	308 258:14	21:15,16,19,23
203:12,19	154:2,9,13,18	275 7:5	30th 13:12	22:5 95:15
245:19,20	171:9,11	28 6:21 263:8,10	31 7:6 290:16,19	96:2 102:14
249:17 346:20	172:19 210:11	29 5:8 6:23	295:1 372:13	121:19 238:11
366:9	218:8 233:15	269:15,17	314 3:14	238:15 268:7
		<u> </u>	<u> </u>	

				Page 427
271:14 294:17	515 2:14	218:24 226:9	917 1:23	
294:18,19,21	517 249:9,9	233:15 257:12	96 5:13	
294:22 296:11	518 249:18	323:2 348:2	973 3:9	
296:11 301:1,1	519 250:7	372:14	975 3:18	
303:17,17	520 247:2,7	70 47:2 301:8	99 272:18	
315:16,19	248:18 254:4,5	303:22	77272.10	
321:18 323:2	256:13	70130 2:9		
325:6 327:17	522 248:19	78701 3:4		
331:4 356:5	249:1,9	7992847 2:10		
41 209:3	53 135:23	7 up 51:24		
42 311:20 312:1	245:19,20	7 up 51.27		
312:8	55 192:4,7	8		
42nd 170:10	550 248:21	8 5:5 26:10,11		
43 140:6,13	5672 1:23	26:14,16 257:2		
304:4	59 1:16 371:12	257:7 311:16		
4303301 2:15	371:14	325:6 327:17		
	591 1:23	800 2:5 13:23		
437 248:24	391 1:23	8015 13:23		
438 249:8	6	8022 13:24		
45 189:9,22,23	64:21 23:18,19	8027 13:24		
46 175:1	23:22 24:1,15	8035 13:24		
47 175:2 192:2,3	147:4,14 148:1	8041 14:1		
48 289:24 290:6	148:1,22	8041 14.1 8043 14:1,2		
48th 6:5	156:20 162:11	80week 292:21		
4th 1:15,18 9:4	168:24 169:6	293:12,14		
41:1	173:6 185:16	816 3:3		
5	272:20 321:18	82 246:6,14		
5 1:16 4:20	600 3:13 34:22	247:13 248:8		
	35:4	8285371 3:19		
22:19,24 23:8 23:13 64:2	61 140:18	84 272:12		
102:14 209:14				
	6174expires	85 5:9 87 115:17		
249:17 256:13	372:13			
315:16,19	625 279:19	877 1:23		
325:5,8,16,17	280:2 63102 3:13	89 5:11 271:14		
326:16,24		8982034 2:5		
329:4 330:9,11	66 26:24 177:4,6	8oxide 255:7		
330:16 333:7,8	69 26:24	257:9,12		
333:9,11	7	8th 354:6		
355:11 371:12	7 4:23 6:10,15	9		
371:14	25:20,21,24	9 1:16 4:5 5:6		
50 104:23,24	26:23 28:17	9:5 26:19,21		
220:11,11	30:20 41:15	26:23 27:3,19		
230:15 352:24	193:15 194:22	28:9 74:22		
353:1,3				
500 1:18	195:11 199:6	164:11,15		
504 2:10 512 3:4	199:24 201:8 203:10 218:8	168:11 208:21 900712223 2:15		